FISHERIES

of the

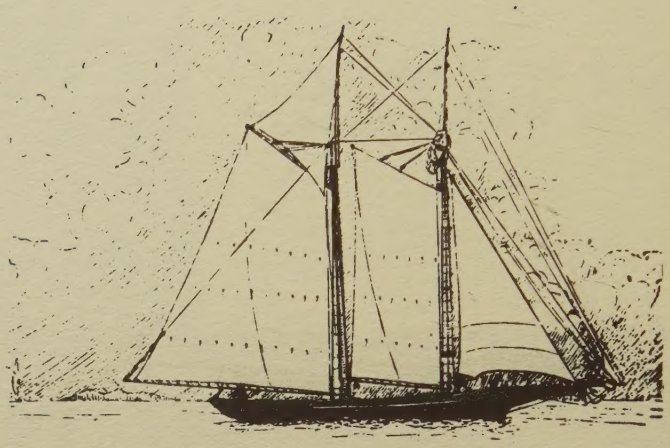
UNITED STATES - 1964

UNITED STATES DEPARTMENT OF THE INTERIOR

Fish and Wildlife Service

Bureau of Commercial Fisheries

C.F.S. No. 3800



Created in 1849, the Department of the Interior--a department of conservation--is concerned with the management, conservation, and development of the Nation's water, fish, wildlife, mineral, forest, and park and recreational resources. It also has major responsibilities for Indian and Territorial affairs.

As the Nation's principal conservation agency, the Department works to assure that nonrenewable resources are developed and used wisely, that park and recreational resources are conserved for the future, and that renewable resources make their full contribution to the progress, prosperity, and security of the United States--now and in the future.

UNITED STATES DEPARTMENT OF THE INTERIOR
Stewart L. Udall, *Secretary*
FISH AND WILDLIFE SERVICE, Clarence F. Pautzke, *Commissioner*
BUREAU OF COMMERCIAL FISHERIES, Donald L. McKernan, *Director*

FISHERIES OF THE UNITED STATES

1964

(A Preliminary Review)

by

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Division of Economics

C. F. S. NO. 3800

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QUICK REFERENCE GUIDE TO MAJOR SPECIES

Many persons using this publication are interested in information on individual species. To assist in locating data, there follows a list of the major species, the type of information concerning each included in the report, and the pages on which it appears.

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REVIEW, 1964

The world's seafood harvest increased from 71.9 billion pounds in 1958 to 102.3 billion pounds in 1963; the 1964 harvest will doubtless be even larger. The use of fishery products in the United States expanded steadily from 7.6 billion pounds in 1958 to 12.0 billion pounds in 1964, but domestic fishermen benefited little from the production explosion. The U.S. fishing fleet has taken a smaller percentage of the world's catch each year and in 1963 and 1964 supplied less than half our requirements. In 1964, about 62 percent of our supply of fishery products were of foreign origin as the United States continued to be the world's largest importer of fishery products. Our fleet could substantially increase the harvest off our coast; unused fishery resources (potential of at least four times our present catch) are available. Through science and technology, with new and modern fishing vessels, domestic fishermen could harvest these resources, compete successfully with foreign fishery operations, and find ready markets here and abroad for products of the American fisheries. If our oldest and most historic industry shows the proper initiative, it has an optimistic future.

U.S. fishermen caught 4,523 million pounds in 1964 worth $390 million. The volume taken was 324 million pounds or 7 percent less than in 1963 and the smallest catch since 1953. However, the total amount paid fishermen in 1964 ($390 million) was nearly $13 million or 4 percent more than in 1963 and the second highest value on record.

The lower volume was caused by sharp declines in landings of menhaden and Atlantic herring, and reduced catches of Pacific halibut and mackerel, tuna, shrimp, and Atlantic ocean perch.

The high value of the 1964 landings resulted from a larger catch of high-priced Pacific salmon, blue crabs from the Atlantic and Gulf waters, and Alaska king crabs, together with increased average prices for tuna, shrimp, and sea scallop meats.

The catch used for human food totaled 2,461 million pounds, while 2,062 million pounds were taken for industrial uses (meal, oil, bait, animal food, etc.). Compared with 1963, the catch for human food declined 95 million pounds and the catch for industrial uses, 229 million pounds.

In 1964, for the second straight year, over half of the U.S. supply of fish and shellfish (catch plus round weight of imports) was of foreign origin. The estimated round weight of imported items totaled 7,509 million pounds or 62 percent of the total supply of 12,032 million pounds--a new record. Imports of edible fishery products (2,395 million pounds--round weight) in 1964 were 5 percent more than in 1963. Imports of industrial fishery products (5,114 million pounds--round weight) were 18 percent or 774 million pounds greater than in 1963 because of increased receipts of fish meal.

REVIEW, 1964

When price disputes between Prince William Sound fishermen and canners threatened to curtail fishing, the Govenor of Alaska invited Japanese fishing companies to purchase fresh salmon in July and August, 1964. Domestic fishermen delivered an estimated 7,400 tons of salmon to Japanese refrigerated vessels. The delivery was almost 80 percent pink, 20 percent chum, and a small quantity of red and silver salmon. Japanese sources indicated that firms involved in the purchase were packing pink salmon primarily for European markets. All chum salmon purchased were to be salted or frozen for sale on the Japanese domestic market.

Foreign vessels, principally Russian and Japanese continued to intensify their fishing operations off the U.S. coasts during 1964.

Off the Pacific coast, in the Gulf of Alaska, and in the Bering Sea, more than 1,200 Japanese and Russian fishing and auxiliary vessels took millions of tons of fish, shellfish, and whales. The Japanese alone had over 700 vessels while the Russian fleet numbered about 500 fishing craft.

These foreign craft, operating among the American fleet, interfered with American fishing operations by damaging and destroying gear and by crowding grounds normally fished by our fleet.

Off the Atlantic coast and in the Gulf of Mexico, the Russians also continued to intensify their operations. More than 300 Russian fishing vessels fished from Georges Bank to the Gulf of Mexico. These vessels made trips from Georges Bank to Cuba to discharge part or all of their cargo.

While more fish are being taken by foreign fishing craft on the high seas off the United States, our catch off the coasts of foreign countries is declining. In 1954, U.S. fishermen took 574 million pounds of fish on the high seas off Canada and Central and South American countries compared with only 411 million pounds in 1964. The decline resulted from reduced catches of groundfish off Canada and tuna off Central and South America.

Peru replaced Japan as the world's most productive fishing country according to the Fisheries Division of the Food and Agriculture Organization, Rome. Japan had been the world's leading fishing nation since F.A.O. began collecting world catch statistics in 1947. Most of the Peruvian catch is anchovies and the volume of this species taken off the Peruvian coast in 1964 exceeded 20 billion pounds.

REVIEW, 1964

HIGHLIGHTS OF 1964

RECORDS ESTABLISHED

CATCH

- Flounders, yellowtail --- 82.9 million pounds . . . . . (previous high, 1963 -- 82.7 million pounds).
- Flounders, (total, Atlantic and Gulf States) --- 128.8 million pounds . . . . (previous high, 1963 -- 125.5 million pounds).
- Crabs, king --- 86.7 million pounds . . . . . (previous high, 1963 -- 78.7 million pounds).

MANUFACTURED PRODUCTS

- Canned tuna --- 17.7 million cases . . . . . (previous high, 1962 -- 17.0 million cases).
- Fish portions --- 105.6 million pounds . . . . . (previous high, 1963 -- 94.6 million pounds).
- Breaded shrimp --- 90.7 million pounds . . . . . (previous high, 1962 -- 76.8 million pounds).

IMPORTS

- All fishery products --- 7.5 billion pounds (live-weight basis) . . . . . (previous high, 1963 -- 6.6 billion pounds).
- Edible fishery products --- 2.4 billion pounds (live-weight basis) . . . . . (previous high, 1963 -- 2.3 billion pounds).
- Industrial fishery products --- 5.1 billion pounds (live-weight basis) . . . . (previous high, 1963 -- 4.3 billion pounds).
- Groundfish and ocean perch fillets (including blocks and slabs) --- 246.6 million pounds . . . . . (previous high, 1963 -- 231.8 million pounds).
- Tuna, albacore (fresh and frozen) --- 125.0 million pounds . . . . . (previous high, 1962 -- 83.9 million pounds).
- Tuna, loins and discs --- 14.9 million pounds . . . . . (previous high, 1957 -- 12.4 million pounds).
- Scallops, sea (meats) --- 16.1 million pounds . . . . . (previous high, 1963 --13.3 million pounds).

IMPORTS - Continued

- Shrimp --- 154.6 million pounds . . . . . (previous high, 1963 -- 151.5 million pounds).

- Fish meal and scrap --- 439,113 tons . . . . . (previous high, 1963 -- 376,321 tons).

EXPORTS

- Salmon, fresh and frozen --- 20.5 million pounds . . . . . (previous high, 1933 -- 5.8 million pounds according to available records).

- Canned shrimp --- 3.7 million pounds . . . . . (previous high, 1960 -- 3.5 million pounds).

SUPPLY (Domestic production plus imports)

- All fishery products --- 12.0 billion pounds (live-weight basis) . . . . . (previous high, 1963 -- 11.5 billion pounds).

- Edible fishery products --- 4.9 billion pounds (live-weight basis) . . . . . (previous high, 1963 -- 4.8 billion pounds).

- Industrial fishery products --- 7.2 billion pounds (live-weight basis) . . . . . (previous high, 1963 -- 6.6 billion pounds).

- Groundfish and ocean perch fillets (including blocks and slabs) --- 321.7 million pounds . . . . . (previous high, 1963 -- 315.2 million pounds).

- Fillets, other than groundfish and ocean perch --- 152,818 thousand pounds . . . . . (previous high, 1962 -- 152,804 thousand pounds).

- Canned tuna --- 404.4 million pounds . . . . . (previous high, 1963 -- 384.2 million pounds).

- Fish meal and solubles --- 723,789 tons (dry weight for solubles) . . . . . (previous high, 1963 -- 689,740 tons).

OTHER IMPORTANT FACTS

- The menhaden catch of 1.6 billion pounds accounted for 35 percent of the total U.S. catch of all species.

REVIEW, 1964

- Shrimp was the most valuable item taken by domestic fishermen in 1964, accounting for 17.9 percent of the total paid for all species. The amount paid for shrimp ($70 million) was 20 percent more than for the second most valuable item, Pacific salmon.

- Louisiana led all States in volume of catch -- 705 million pounds -- followed by California -- 502 million pounds -- Alaska -- 491 million pounds -- Virginia -- 463 million pounds -- and Massachusetts -- 439 million pounds.

- Alaska led all States in value of catch -- $57 million -- followed by California -- $50 million -- Massachusetts -- $40 million -- and Louisiana -- $35 million.

- For the 15th consecutive year, San Pedro led all other U.S. fishing ports in value of catch.

- In 1964, domestic landings accounted for only 38 percent of the supply (catch plus imports) compared with 63 percent in 1954. The U.S. total supply of fishery products has increased 58 percent since 1954. (please see graph on back cover).

- Estimates, prepared in 1964, of the fishery resources available to U.S. fishermen, indicate that the annual catch could be increased to over 22 billion pounds. Most of the increase would be in species not now fished or taken in large volume such as anchovies, Pacific flounders, Pacific and red hake, herring, Pacific ocean perch, saury, thread herring, whiting, fresh-water fish, and Pacific shrimp.

MAJOR SPECIES

- Groundfish . . . . . The Atlantic fishery for groundfish (cod, cusk, haddock, ocean perch, pollock, and white hake) caught 297 million pounds in 1964 -- nearly 13.5 million pounds less than in 1963. Most of the decline was in landings of ocean perch, which totaled only 89 million pounds -- 19 million pounds less than in 1963, and 167 million pounds under the record 1951 production. The 38.5 million pounds of cod taken was the fifth smallest catch since records have been maintained on the fishery. Haddock was the only groundfish showing a significant increase in 1964. The catch of 133 million pounds was up 9.4 million pounds over 1963.

REVIEW, 1964

- Halibut, Pacific . . . . . United States and Canadian fishermen landed 60.0 million pounds (dressed weight) of halibut in 1964 -- about 11.0 million pounds less than the 71.4 million pounds taken in the previous year. The catch by United States fishermen (26.4 million pounds-dressed weight) was nearly 8 million pounds under 1963; the Canadian catch (33.6 million pounds) was down 3.5 million pounds, but exceeded the United States production for the second consecutive year. In Area 3B (North Triangle) the catch limit was nearly 6.4 million pounds; however, only 1.9 million pounds were taken in 1964. Japanese fishermen caught only 261,000 pounds in this area compared to 3.6 million pounds in 1963. The combined United States and Canadian halibut fleet totaled only 412 vessels in 1964 -- in the previous year they numbered 562. The 205-vessel United States fleet was 121 vessels less than 1963, while the Canadian fleet of 207 vessels was 29 less. The Canadian fleet had many newer, larger, and faster vessels that outfished the older United States fleet. Halibut prices showed some improvement in 1964 with Seattle ex-vessel halibut prices averaging 25.3 cents per pound, compared with 23.3 cents in 1963.

- Herring, sea, Maine . . . . . The catch of Atlantic herring (used principally for canning "sardines") was a near failure in 1964. Landings of only 62.5 million pounds were less than half the 154.8 million pounds taken in the previous year and the second poorest catch in 24 years. Canners limited production early in the season due to a heavy carryover of stocks from the previous year. As the season advanced, however, it became apparent that small fish suitable for canning were in short supply. The catch and imports of Canadian herring for canning yielded only 866,000 standard cases of sardines for a market now requiring 1-1/2 million cases annually. In 1964, fish were not available in quantity in inshore waters.

- Herring, sea, Alaska . . . . . The Alaska catch of herring (which is used entirely in the manufacture of fish meal and oil or as bait) was 49.9 million pounds. This was about 11.1 million pounds more than the 38.8 million pounds taken in 1963.

- Mackerel, jack and Pacific . . . . . The combined landings of jack and Pacific mackerel totaled 116.4 million pounds -- 19.2 million pounds less than the 135.7 million pounds taken in 1963. Landings of jack mackerel (89.6 million pounds) were 5.8 million pounds less than in 1963, while those of Pacific mackerel (26.8 million pounds) were down 13.4 million pounds. Landings might have been larger had not negotiations for an increase in ex-vessel price delayed fishing for 2 months. Fishing operations were not materially restricted by small nightly catch limits as in 1963; such limits were either liberalized or removed during most of the year.

REVIEW, 1964

- Menhaden . . . . . The catch of menhaden in 1964 was 1,567 million pounds -- 249 million pounds (14 percent) less than the previous year and 871 million pounds (33 percent) less than the record 1962 catch. Atlantic coast landings were 663 million pounds (42 percent) and Gulf landings 904 million pounds (58 percent). Even with a decreased catch, menhaden comprised 35 percent of the total 1964 U.S. landings and had the largest volume for any single species. The greatest portion of the decline, 185 million pounds or 22 percent, was along the Atlantic coast. The Gulf coast catch declined 64 million pounds or 7 percent. The Middle Atlantic States had large declines, ranging as high as 68 percent in Delaware compared with 1963. North Carolina had the smallest declines -- 9 percent. In contrast to the other Atlantic States, the Virginia catch was up 27 percent. Virginia catches from the ocean were poor, but heavy catches in the Chesapeake Bay, especially during November, accounted for the increase. Gulf Coast landings started out light and slowly increased as the season progressed. June and July landings were greater than the corresponding periods of 1963. But landings declined again in August, and continued below 1963 for the remainder of the season.

- Salmon, Pacific . . . . . About 353.4 million pounds of salmon were taken by U.S. fishermen in 1964 -- about 20 percent more than in 1963 and 29 percent above the 1958-62 average. Nearly 90 percent of the catch was taken in Alaska where the catch increased about 89 million pounds owing to improved runs of all species. The Alaska canned pack of pink salmon of 1.9 million standard cases in 1964, was the fourth consecutive pack of this species to exceed 1 million cases creating a serious marketing problem. The catch in Washington was 35 million pounds less than in 1963 because of the normal absence of pink salmon -- a species with a 2-year reproduction cycle -- which have large runs only in odd-numbered years. U.S. fishermen on Prince William Sound, Alaska sold about 16 million pounds of salmon, mostly pinks, to Japanese freezer ships when fishermen and packers could not reach a price agreement. Several salmon installations in Alaska were seriously damaged by a strong earthquake in March 1964. Losses to fishery processing and freezing plants were estimated at near $5 million while the fishing fleet sustained a loss of about $1.5 million.

- Sardines, Pacific . . . . . Sardines again failed to appear in volume off southern California, and only 13.0 million pounds were landed -- about 1 percent of the average annual catch during the peak of the fishery from 1934 to 1945. Except for a brief good showing of fish on the season's opening night, sardines were scarce and only scattered small catches were made during the balance of the year. The 1964 pack of Pacific sardines (121,000 cases) was one of the smallest on record. Hopes that huge schools of sardines could be located in California's offshore waters were dissipated when scientific studies failed to find

evidence of such schools. The opinion is widely held that anchovies have replaced sardines in California waters and that the catch of sardines will not likely increase in the near future.

- Tuna . . . . . The 1964 catch of tuna landed in continental United States and Hawaii was 305.2 million pounds -- 5 percent less than in the previous year. Landings of albacore, bluefin, and skipjack were off sharply while the catch of yellowfin increased by nearly 40 million pounds. Tuna fishing generally was good throughout the year. In spite of predictions that the yellowfin catch would decline in 1964, catches were larger than in 1963. This resulted in the decline in skipjack landings because vessels fished for yellowfin, avoiding the lower priced skipjack. The 1964 bluefin and skipjack fishery off the New England and Middle Atlantic States increased materially over 1963. More vessels were active, and larger catches were taken. Although the domestic catch of tuna was less in 1964 than in 1963, imports of tuna for canning were up sharply. The total supply of canned tuna for 1964 (U.S. pack from domestic catch plus U.S. pack from imported tuna and imported canned) amounted to a record 404.4 million pounds. Production and consumption of tuna in 1964 were at high levels reflecting the popularity of the product.

- Crabs, blue . . . . . The Atlantic and Gulf catch of blue crabs was 155.2 million pounds -- nearly 7 percent above the previous year and about equal to the record 1962 landings. Catches of blue crabs in Maryland, Virginia, and North Carolina were well above those for the previous year, while production declined in Georgia and Louisiana.

- Crabs, Dungeness . . . . . The catch of Dungeness crabs in the Pacific Coast States continued at a low level. Landings in the four States were 23.8 million pounds, 1.1 million pounds less than in 1963 and 10.5 million pounds below the 1958-62 average. The catches declined in Washington, Oregon, and California; however, Alaska's relatively new Dungeness crab fishery produced a record catch of about 13.1 million pounds and made up for part of the decline in the other States.

- Crabs, king . . . . . Alaska fishermen took a record 86.7 million pounds of king crabs in 1964 -- nearly 8 million pounds more than in the previous year. Seismic sea waves from the "Good Friday Earthquake" smashed crab processing facilities at Kodiak in March and brought about a decrease in production from that area; however, Kodiak fishermen then shifted their operations to the Alaska Peninsula-Aleutian area and took large catches in westward waters. Alaska's pack of canned crab meat was less than in 1963 because of damaged canning facilities. Large quantities of frozen king crab meat and crab legs -- products that have enjoyed a tremendous increase in popularity during the last few years -- were sent to markets across the country.

REVIEW, 1964

- Oysters . . . . . Production of oysters in 1964 was 60.2 million pounds -- a gain of 1.8 million pounds over the 1963 catch. Landings in the Chesapeake States were up again because of greater catches in Virginia; however, catches in the South Atlantic, Gulf, and Pacific States declined.

- Shrimp . . . . . The total U.S. catch of shrimp in 1964 was 208.3 million pounds, compared with 240.5 million pounds in the previous year. Prices for shrimp rose sharply during the year, and despite the 13 percent decline in landings, fishermen received $70 million for the catch the same as in 1963. Despite the decline in landings, a small increase in imports and a reduction in the large carryover of frozen shrimp from the previous year permitted consumption at near the same level as in 1963. Landings at Gulf and South Atlantic ports of 196.4 million pounds were 22.2 million pounds less than in 1963. South Atlantic landings improved slightly, but this fishery was still a marginal operation for most fishermen. Higher ex-vessel prices resulted in a profitable year for most Gulf vessel owners. The major factor in the decline of Gulf landings was the poor brown shrimp season, principally in Louisiana and Mississippi waters. On the Pacific coast, landings dropped from 21.3 million pounds in 1963 to 11 million pounds in 1964. Availability of shrimp is not a factor in this decrease which seems to result from a combination of loss of some Alaska processing facilities and poor market conditions for the small Pacific shrimp.

MANUFACTURED FISHERY PRODUCTS

- Canned fishery products . . . . . The 1964 pack of canned fishery products by 322 plants in the United States, American Samoa, and Puerto Rico was 35.2 million standard cases (1.1 billion pounds) valued at $431.0 million to the packers. Compared with the pack in 1963, production was up 648,000 cases and $9.4 million. The production gain resulted mainly from a record pack of tuna and increases in the packs of salmon and animal food. There were smaller packs of mackerel, Maine sardines, crab meat, clam chowder and juice, oysters, and shrimp.

  The pack for human consumption (726.5 million pounds) was 2.4 million pounds less than in 1963 while production of bait and animal food (353.5 million pounds) was 46.5 million pounds more. The value of three items -- salmon, tuna, and animal food -- accounted for 83 percent of the total amount received by producers of canned fishery products in 1964. Animal food containing less than 10 pounds of fish per standard case of 48 pounds (4,001,215 standard cases valued at $17,335,586) was not included in the 1964 total.

REVIEW, 1964

- Industrial fishery products . . . . . The production of industrial fishery products by 160 plants in the United States, American Samoa, and Puerto Rico in 1964 was valued at $69.6 million -- an increase of more than $1 million over 1963.

  Marine animal scrap and meal: -- The 1964 production of 235,252 tons was 8 percent less than the 255,907 tons produced in 1963 and the smallest quantity since 1952. Menhaden scrap and meal (160,349 tons) was nearly 24,000 tons below that produced in 1963. The shortage of menhaden in 1963 became worse in 1964, and landings along the Atlantic coast and in the Gulf of Mexico were less in all States (except Virginia). However, record imports of meal (439,143 tons) were received and the supply (domestic production plus imports) totaled a record 674,395 tons.

  Marine animal oil: -- Domestic production of marine animal oil (180.2 million pounds) was 3 percent less than the 185.8 million pounds produced in 1963. Despite the decline in the menhaden catch, the production of menhaden oil (157.7 million pounds) accounted for 88 percent of the total fish oil produced in 1964. Nearly 151.4 million pounds of fish oil were exported in 1964.

  Fish solubles: -- The 1964 production of solubles was 93,296 tons -- 7 percent less than in the previous year. No homogenized condensed fish was produced in 1964.

  Other industrial products: -- Products from oyster shells and buttons from fresh-water and marine mollusk shells were valued at $6.2 million in 1964. This was a decrease of over $808,000 from the previous year.

  Other items produced in 1964 were valued at $16.6 million and included agar-agar, fish feed pellets and animal feeds, Irish moss extract, kelp products, fish leather, liquid fertilizer, shell lime and chips, pearl essence, and crab shells. In 1963, these products were valued at $13.8 million.

- Packaged fish . . . . . Production of fresh and frozen packaged fish fillets and steaks during 1964 in the United States, excluding Alaska and Hawaii, was 154.4 million pounds worth $55.1 million to the processors. Compared with the previous year, this was a decrease of 11.6 million pounds and $2.3 million. The production of fresh and frozen groundfish and Atlantic ocean perch fillets and steaks was 75.2 million pounds or 10 percent less than that produced in 1963; however, record imports (246.6 million pounds) were received in 1964, and the total supply available for U.S. consumption reached a record high of 321.7 million pounds.

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- Fish sticks, portions, and breaded shrimp . . . . . Production of fish sticks and portions was 179.2 million pounds worth $66.3 million. Breaded shrimp production was 90.7 million pounds worth $63.0 million. Compared with 1963, this was a gain of 3 percent in the volume of fish sticks and portions and 1 percent in the value. Production of fish sticks (73.5 million pounds) declined 7 percent, while portions (105.6 million pounds) increased 12 percent. Breaded shrimp production was 19 percent greater than in 1963.

The data used in this publication were prepared under the direction of Charles H. Lyles. The material was prepared for publication by the staff of the Branch of Fishery Statistics under the supervision of Frank Riley assisted by Thelma I. Bell. Special mention and thanks should be made to E. A. Power who has given many valuable suggestions and aided in the preparation of this report.

The cooperation of the various States in supplying operating unit and catch statistics used in this report is gratefully acknowledged. Data on the production of canned fishery products and fish meal and oil in tables on pages 24 and 25 were supplied by the Alaska Department of Fish and Game.

U. S. CATCH

CATCH OF CERTAIN SPECIES, 1963-64

Species	1963		1964 1/		5-year av. 1958-62
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Anchovies, California	4,570	78	5,000	85	6,952
Bluefish	5,583	620	4,600	500	4,043
Bonito	4,234	133	2,700	80	4,251
Cod, Atlantic	42,177	3,106	38,500	2,700	44,345
Croaker, Atlantic	2,723	214	2,500	220	9,262
Cusk	1,909	110	2,300	116	1,916
Flounders, Atlantic and Gulf:					
Blackback	18,219	1,704	20,800	1,700	16,261
Fluke	10,943	2,783	9,700	2,400	18,055
Yellowtail	82,691	5,343	82,900	5,600	38,866
Other	13,646	1,885	15,400	1,900	11,117
Total	125,499	11,715	128,800	11,600	84,299
Haddock	123,972	11,705	133,400	11,800	123,745
Hake, white	6,249	259	6,900	300	5,285
Halibut, Pacific	45,569	6,883	35,100	5,100	51,883
Herring, sea:					
Atlantic	154,770	1,704	62,500	1,300	134,472
Pacific	38,834	656	49,900	780	78,420
Mackerel: (California)					
Jack	95,442	1,989	89,600	2,100	64,421
Pacific	40,243	861	26,800	600	38,950
Menhaden:					
Atlantic Coast	848,105	10,212	662,700	11,900	1,264,017
Gulf	967,693	12,174	904,100	13,000	882,525
Mullet	42,734	2,354	39,800	2,100	42,137
Ocean perch, Atlantic	108,292	5,147	89,300	3,800	136,565
Pollock	14,607	670	13,300	700	23,502
Salmon, Pacific:					
Chinook or king	27,179	10,911	27,400	11,200	26,225
Chum or keta	38,840	3,626	64,100	5,900	52,968
Pink	156,603	18,289	165,100	19,100	97,362
Red or sockeye	43,424	10,337	57,100	12,600	75,724
Silver or coho	28,131	5,848	39,700	9,700	21,630
Total	294,177	49,011	353,400	58,500	273,909
Sardine, Pacific	7,131	299	13,000	400	79,576
Scup or porgy	41,922	3,099	38,600	2,900	45,653
Sea trout, gray	3,601	345	4,600	400	4,831
Snapper, red	13,165	3,534	13,800	3,700	11,508
Striped bass	9,358	1,314	7,900	1,300	8,180
Swordfish, Atlantic	2,755	764	2,900	950	1,187
Tuna: 2/					
Albacore	60,802	9,164	48,000	7,900	40,753
Bluefin 3/	41,313	4,479	30,400	3,700	26,512
Little	72	9	60	8	53
Skipjack	108,997	11,778	76,900	8,300	94,667
Yellowfin	110,424	14,739	149,700	20,300	148,075
Unclassified	11	1	100	9	-
Total tuna	321,619	40,170	305,160	40,217	310,060
Whiting	92,643	2,178	94,100	2,100	108,803
Shellfish					
Clams:					
Hard, Atlantic	14,142	8,218	14,400	8,800	14,122
Soft, Atlantic	9,754	2,926	10,900	3,100	7,814
Surf	38,586	2,676	38,200	2,600	24,225

See footnotes at end of table. (Continued on next page)

CATCH OF CERTAIN SPECIES, 1963-64 - Continued

Species	1963		1964 1/		5-year av. 1958-62
Shellfish - continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Crabs:					
Blue	145,257	9,014	155,200	10,800	138,019
Dungeness	24,863	4,306	23,800	4,000	34,253
King	78,740	7,607	86,700	8,800	30,963
Lobsters:					
Northern	30,274	16,769	26,900	19,300	28,995
Spiny	4,180	1,798	4,100	1,800	3,479
Oysters (meats)	58,444	27,105	60,200	28,300	61,892
Scallops (meats):					
Bay	1,517	1,077	1,400	1,100	2,071
Sea	19,939	9,257	17,000	9,200	24,463
Shrimp (heads-on):					
South Atlantic States	15,529	5,246	17,400	6,600	25,126
Gulf States	203,116	63,539	179,000	62,700	169,621
Pacific Coast States	21,260	1,181	11,000	600	18,956
Other	573	78	900	100	120
Total shrimp	240,478	70,044	208,300	70,000	213,823
Squid, California	11,561	240	16,400	340	9,865
Other fish, shellfish, etc.	709,798	44,821	728,240	43,012	-
Grand total	4,847,109	377,162	4,523,000	390,400	-

1/ Preliminary. 2/ Does not include landings of tuna by U. S. vessels in Puerto Rico.
3/ Includes data on the catch of bigeye tuna in Hawaii.
Note:--The weight of the catch represents the live (round) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in the weight of meats, excluding the shell.

CATCH OF FISH AND SHELLFISH, 1946-64

Year	Catch for human food		Catch for industrial products 1/		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1946	3,049	(2)	1,418	(2)	4,467	313
1947	3,020	(2)	1,329	(2)	4,349	312
1948	3,146	(2)	1,367	(2)	4,513	371
1949	3,305	(2)	1,499	(2)	4,804	343
1950	*3,307	(2)	1,594	(2)	4,901	347
1951	3,048	(2)	1,385	(2)	4,433	365
1952	2,778	(2)	1,654	(2)	4,432	364
1953	2,519	(2)	1,968	(2)	4,487	356
1954	2,705	(2)	2,057	(2)	4,762	359
1955	2,579	(2)	2,230	(2)	4,809	339
1956	2,690	(2)	2,578	(2)	5,268	372
1957	2,475	(2)	2,314	(2)	4,789	354
1958	2,651	(2)	2,096	(2)	4,747	373
1959	2,369	(2)	2,753	(2)	5,122	346
1960	2,498	326	2,444	28	4,942	354
1961	2,490	329	2,697	33	5,187	362
1962	2,540	362	*2,814	34	*5,354	396
1963	2,556	347	2,291	30	4,847	377
1964 3/	2,461	360	2,062	30	4,523	390

1/ Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food. 2/ Data not assembled. 3/ Preliminary. *Record.

U. S. CATCH

CATCH BY STATES, 1963-64

State	1963		1964 1/		Record catch	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama	21,634	4,699	2/ 21,823	2/ 4,960	1955	29,307
Alaska	391,938	45,703	490,746	57,293	1936	932,341
Arkansas	4,158	457	(3)	(3)	-	(4)
California	513,746	49,286	502,464	50,234	1936	1,760,183
Connecticut	5,047	1,247	(3)	(3)	1930	88,012
Delaware	104,188	1,292	33,900	611	1953	367,500
Florida	195,722	29,049	186,717	30,765	1938	241,443
Georgia	21,011	2,613	18,338	2,973	1927	47,607
Hawaii	11,735	2,679	11,839	2,738	1954	20,610
Illinois	8,546	721	(3)	(3)	-	(4)
Indiana	1,634	104	(3)	(3)	-	(4)
Iowa	2,438	173	(3)	(3)	-	(4)
Kansas	44	12	(3)	(3)	-	(4)
Kentucky	3,970	492	(3)	(3)	-	(4)
Louisiana	760,662	35,195	2/ 705,241	2/ 35,296	1962	776,621
Maine	285,636	21,216	191,191	21,939	1950	356,266
Maryland	55,457	10,748	69,316	11,548	1890	141,607
Massachusetts	467,693	41,234	439,459	39,527	1948	649,696
Michigan	20,326	2,322	19,501	2,291	1930	35,580
Minnesota	14,759	886	(3)	(3)	-	(4)
Mississippi	344,278	8,916	2/ 331,651	2/ 7,606	1961	391,689
Missouri	349	40	(3)	(3)	-	(4)
Montana	268	32	(3)	(3)	-	(4)
Nebraska	472	42	(3)	(3)	-	(4)
New Hampshire	1,201	443	(3)	(3)	-	(4)
New Jersey	255,020	10,335	139,147	9,346	1956	540,060
New York	191,758	9,809	2/ 197,353	2/ 10,801	1880	2/ 335,000
North Carolina	256,652	7,047	237,388	7,782	1959	342,612
North Dakota	283	21	(3)	(3)	-	(4)
Ohio	14,223	1,151	11,230	867	1936	31,083
Oklahoma	444	57	(3)	(3)	-	(4)
Oregon	61,362	7,679	58,110	8,062	1941	91,725
Pennsylvania	1,412	105	(3)	(3)	-	(4)
Rhode Island	69,312	4,149	36,379	3,629	1889	128,056
South Carolina	22,015	3,236	21,723	3,001	1957	24,402
South Dakota	3,719	157	(3)	(3)	-	(4)
Tennessee	12,669	1,227	(3)	(3)	-	(4)
Texas	167,126	30,163	2/ 145,866	2/ 30,488	1960	237,684
Virginia	374,746	19,056	462,894	26,781	1959	526,306
Washington	149,687	21,437	99,103	13,550	1941	197,253
Wisconsin	29,589	1,927	(3)	(3)	-	(4)
Wyoming	180	5	(3)	(3)	-	(4)
---	-	-	5/ 91,621	5/ 8,312	-	-
Total	4,847,109	377,162	4,523,000	390,400	-	-

1/ Preliminary.
2/ Catch in interior waters estimated.
3/ Data not available.
4/ Not determined.
5/ Estimated catch for States in which surveys were not conducted.
Note:--The weight of the catch represents the live (round) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in the weight of meats, excluding the shell.

U. S. CATCH

DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES
AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1964

Area and species	Waters off U. S. Coasts	High seas off foreign coasts	Total
	Million pounds	Million pounds	Million pounds
Atlantic and Gulf States:			
New England:			
Cod	34.9	2.7	37.6
Cusk	2.0	.3	2.3
Flounders	111.1	1.0	112.1
Haddock	116.8	16.5	133.3
Hake, white	6.6	.3	6.9
Halibut	.2	.1	.3
Ocean perch	17.3	72.0	89.3
Pollock	10.8	2.5	13.3
Swordfish	1.4	(1)	1.4
Wolffish	.5	.3	.8
Scallops, sea	14.6	(1)	14.6
Unclassified	261.3	.1	261.4
Total	577.5	95.8	673.3
Middle Atlantic, unclassified, total	369.9	-	369.9
Chesapeake:			
Tuna	2.5	.5	3.0
Unclassified	529.2	-	529.2
Total	531.7	.5	532.2
South Atlantic, unclassified, total	335.9	-	335.9
Gulf:			
Groupers	6.7	1.2	7.9
Snapper:			
Red	7.2	6.0	13.2
Other	1.3	.1	1.4
Warsaw	-	.1	.1
Shrimp	153.8	25.2	179.0
Unclassified	1,112.4	(1)	1,112.4
Total	1,281.4	32.6	1,314.0
Total Atlantic and Gulf States	3,096.4	128.9	3,225.3
Pacific Coast States:			
Alaska, Washington, and Oregon:			
Bottomfish (Washington and Oregon) 2/	38.0	33.5	71.5
Halibut	32.8	2.3	35.1
Salmon	341.8	2.1	343.9
Unclassified	197.5	(1)	197.5
Total	610.1	37.9	648.0
California:			
Barracuda	.2	.1	.3
Cabrilla	(1)	(1)	(1)
Flounders	19.8	.2	20.0
Groupers	-	.2	.2
Jack mackerel	89.6	(1)	89.6
Rockfishes	7.8	.1	7.9
Sea Bass:			
Black	-	.2	.2
White	.6	.8	1.4
Sharks, unclassified	.6	(1)	.6
Tuna	38.7	242.1	280.8
Yellowtail	-	.1	.1
Unclassified	101.4	(1)	101.4
Total	258.7	243.8	502.5
Total Pacific States	868.8	281.7	1,150.5
Great Lakes and Mississippi River States, unclassified, total	135.4	-	135.4
Hawaii, unclassified, total	11.8	-	11.8
Grand total	4,112.4	410.6	4,523.0

1/ Less than 50,000 pounds.
2/ Principally cod, flounders (including sole), lingcod, ocean perch, rockfishes, and sablefish.

CATCH BY MONTHS

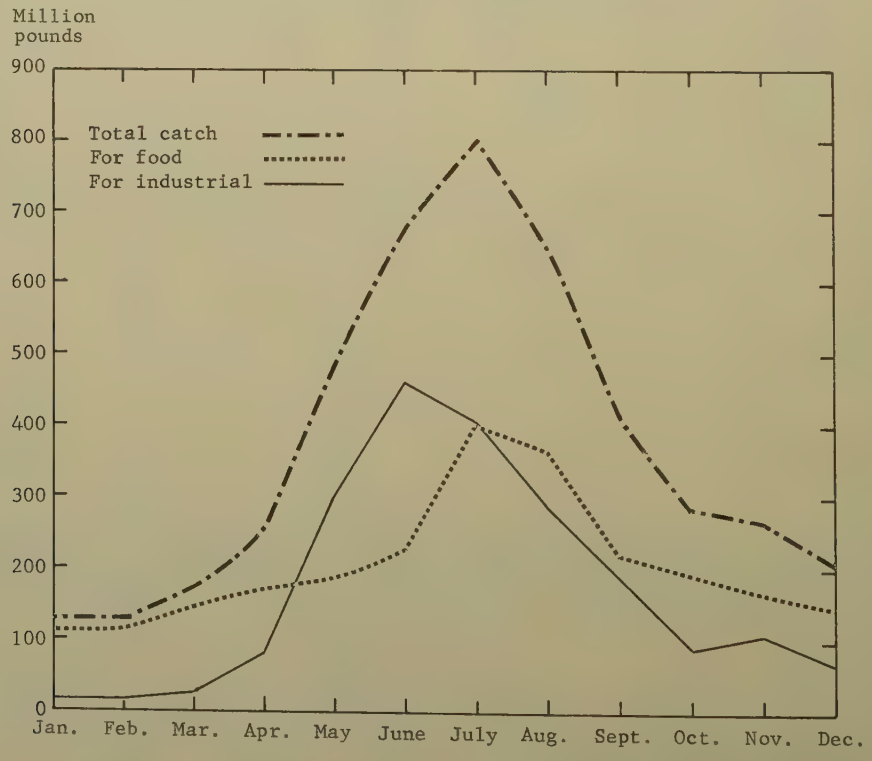
In 1964, July was the peak production month for foodfish and June for industrial fish taken in the United States. During the period May-September, 57.0 percent of the year's foodfish and 80.0 percent of the industrial fish was caught. Total landings during this same period accounted for 67.5 percent of the 1964 catch. Sources from which data on current landings are obtained are shown in Fishery Leaflet 432, entitled "Fishery Statistical Publications of the Bureau of Commercial Fisheries," which is available free upon request from the Office of Information, U. S. Fish and Wildlife Service, Washington D. C. 20240.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1964

Months	Catch for human food		Catch for industrial products 1/		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January	115	4.7	17	.8	132	2.9
February	116	4.7	15	.7	131	2.9
March	148	6.0	28	1.3	176	3.9
April	174	7.1	85	4.1	259	5.7
May	188	7.7	302	14.6	490	10.9
June	229	9.3	459	22.3	688	15.2
July	400	16.3	404	19.6	804	17.8
August	365	14.8	292	14.2	657	14.5
September	220	8.9	193	9.4	413	9.1
October	195	7.9	90	4.4	285	6.3
November	165	6.7	107	5.2	272	6.0
December	146	5.9	70	3.4	216	4.8
Total	2,461	100.0	2,062	100.0	4,523	100.0

1/ Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.

MONTHLY CATCH AND UTILIZATION OF FISH AND SHELLFISH, 1964



LANDINGS AT CERTAIN U. S. PORTS, 1964 1/

Port	Thousand pounds	Thousand dollars	Important species
San Pedro, Calif.	346,000	32,500	Tuna, mackerel
Pascagoula, Miss.	283,600	4,800	Menhaden and other industrial fish
Reedville, Va.	225,500	(2)	Menhaden
Empire, La.	217,500	6,100	Menhaden, shrimp
Cameron, La.	213,600	5,000	Menhaden, shrimp
Beaufort-Morehead City, N. C.	136,000	(2)	Menhaden, shrimp
New Bedford, Mass.	135,600	16,900	Flounders, scallops,
Morgan City, La.	133,200	5,500	Menhaden, shrimp
Gloucester, Mass.	121,000	6,000	Whiting, ocean perch, haddock
Boston, Mass.	107,600	10,300	Haddock, cod
Houma, La.	80,400	5,200	Menhaden, shrimp
Port Arthur, Tex.	70,000	1,800	Menhaden, shrimp
San Diego, Calif.	54,000	7,200	Tuna
Portland, Me.	51,200	2,062	Ocean perch, sea herring
Rockland, Me.	33,600	1,500	Ocean perch, sea herring
Lewes, Del.	30,700	(2)	Menhaden
Brownsville-Port Isabel, Tex.	24,300	9,900	Shrimp

1/ Preliminary. 2/ Data not available.
Note:--The largest landings made at a U. S. port occurred in 1950 when 848 million pounds of fish and shellfish were landed in the San Pedro area. This catch was valued at $38 million which was likewise the greatest value received by fishermen for a catch landed at a U. S. port in a single year.

DISPOSITION OF CATCH, 1963-64

End use	1963		1964 1/	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food.	1,516	31.3	1,483	32.8
For bait and animal food.	141	2.9	120	2.6
Total	1,657	34.2	1,603	35.4
Canned:				
For human food.	962	19.8	907	20.0
For bait and animal food.	111	2.3	135	3.0
Total	1,073	22.1	1,042	23.0
Cured	78	1.6	71	1.6
Reduced to meal, oil, etc.	2,039	42.1	1,807	40.0
Grand total	4,847	100.0	4,523	100.0

1/ Preliminary.

U. S. CATCH

CATCH BY REGIONS

The fisheries of the Gulf States have shown remarkable growth during the past quarter century, increasing from 6 percent of the total domestic catch in 1940 to 29 percent in 1964. During the same period, the California catch fell from 32 to 11 percent. The Alaska catch decreased from 14 to 8 percent in 1963 and recovered to 11 percent in 1964. New England and the Middle Atlantic States were down in 1964 while the Chesapeake area registered a gain. Other areas showed little change. The increase in the Gulf was due largely to the growth of the menhaden fishery, while the decrease of the sardine fishery in California was responsible for the decline in that State. Larger landings of salmon and a record catch of king crabs caused the 1964 increase in Alaska.

VOLUME BY REGIONS, VARIOUS YEARS, 1940-64

(Million pounds)

Region	1940	1950	1960	1963	1/ 1964
New England and Middle Atlantic:					
Quantity	982	1,498	1,636	1,379	1,043
Percent	24	31	33	28	23
Chesapeake:					
Quantity	321	381	435	430	532
Percent	8	8	9	9	12
South Atlantic:					
Quantity	325	261	379	371	336
Percent	8	5	8	8	7
Gulf:					
Quantity	250	571	1,266	1,399	1,314
Percent	6	12	26	29	29
Alaska:					
Quantity	564	482	358	392	491
Percent	14	10	7	8	11
Washington and Oregon:					
Quantity	166	177	162	211	157
Percent	4	4	3	4	4
California:					
Quantity	1,290	1,338	541	514	503
Percent	32	27	11	11	11
Great Lakes and Mississippi River:					
Quantity	162	177	154	139	135
Percent	4	3	3	3	3
Hawaii:					
Quantity	(2)	16	11	12	12
Percent	- —	- —	- —	- —	- —
Total	4,060	4,901	4,942	4,847	4,523

1/ Preliminary. 2/ Data not available.

VALUE BY REGIONS

The percentage value of the U. S. catch taken in most regions during the past quarter century has shown remarkably little change, although the total value has increased about 300 percent. In the Gulf States, however, increases in the menhaden and shrimp fisheries were largely responsible for an increase from 11 percent of the total amount paid U. S. fishermen in 1940 to 26 percent in 1964; while in California, due to disappearance of sardines, there was a decline from 20 to 13 percent. The New England and Middle Atlantic States showed a falling off in 1964. The greatest percentage decrease occurred in the Central States where a downward trend in the lake trout and whitefish fisheries in the Great Lakes was largely responsible for a drop from 9 to 3 percent.

VALUE BY REGIONS, VARIOUS YEARS, 1940-64

(Million dollars)

Region	1940	1950	1960	1963	1/ 1964
New England and Middle Atlantic:					
Value	28.1	89.4	83.2	89.6	87.6
Percent	28	26	23	24	22
Chesapeake:					
Value	7.5	25.0	34.9	29.8	38.3
Percent	8	7	10	8	10
South Atlantic:					
Value	4.1	18.9	20.2	19.5	20.4
Percent	4	5	6	5	5
Gulf:					
Value	10.6	50.4	85.5	98.8	99.9
Percent	11	15	24	26	26
Alaska:					
Value	2/10.6	2/31.4	40.9	45.7	57.3
Percent	11	9	12	12	15
Washington and Oregon:					
Value	9.4	26.2	21.6	29.1	21.6
Percent	9	8	6	8	5
California:					
Value	20.2	81.6	49.6	49.3	50.2
Percent	20	23	14	13	13
Great Lakes and Mississippi River:					
Value	8.5	21.0	15.0	12.7	12.4
Percent	9	6	4	3	3
Hawaii:					
Value	(3)	3.5	2.7	2.7	2.7
Percent	-	1	1	1	1
Total	99.0	347.4	353.6	377.2	390.4

1/ Preliminary. 2/ The value of the Alaska catch for this year does not include types of compensation (food, use of boats, gear, etc.) which were added to the value of the catch for the years following. 3/ Not available.

U. S. CATCH

RELATIVE VOLUME OF THE CATCH, BY SPECIES, 1963

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD CATCH AND YEAR	
	THOUSAND POUNDS	PERCENT	YEAR	THOUSAND POUNDS
MENHADEN	1,815,798	37.5	1962	2,347,944
TUNA	321,619	6.6	1950	391,454
SALMON	294,178	6.1	1936	790,884
CRABS	252,334	5.2	1963	252,334
SHRIMP	240,478	5.0	1954	268,334
INDUSTRIAL FISH 1/	227,374	4.7	1959	247,980
HERRING SEA:				
ATLANTIC	154,770	3.2	1902	200,598
PACIFIC	38,834	.8	1937	263,200
TOTAL	193,604	4.0	-	-
FLOUNDERS	176,798	3.6	1963	176,798
HADDOCK	123,972	2.6	1929	293,809
OCEAN PERCH, ATLANTIC	108,292	2.2	1951	258,320
JACK MACKEREL	95,843	2.0	1952	146,522
WHITING	92,643	1.9	1957	133,041
CLAMS	63,403	1.3	1963	63,403
ALEWIVES	62,440	1.3	1908	89,978
OYSTERS	58,444	1.2	2/ 1908	152,046
COD:				
ATLANTIC	42,177	.9	1880	294,351
PACIFIC	6,369	.1	1915	32,681
TOTAL	48,546	1.0	-	-
HALIBUT, PACIFIC	45,569	.9	1915	66,696
MULLET	42,734	.9	1902	43,385
SCUP OR PORGY	41,922	.9	1960	49,229
MACKEREL, PACIFIC	40,243	.8	1935	146,727
CATFISH AND BULLHEADS	38,614	.8	1963	38,614
LOBSTERS, NORTHERN	30,274	.6	1960	31,168
CARP	30,018	.6	1908	42,659
ROCKFISHES	25,030	.5	1945	57,686
OCEAN PERCH, PACIFIC	23,578	.5	1963	23,578
SCALLOPS, SEA	19,939	.4	1961	27,461
BUFFALOFISH	18,295	.4	1950	25,873
SQUID	16,314	.3	1946	40,266
MUSSEL SHELLS	15,743	.3	1908	81,869
POLLOCK	14,607	.3	1938	40,694
SNAPPER, RED	13,165	.3	1902	23,457
YELLOW PERCH	11,743	.2	1934	16,282
CHUBS	11,023	.2	1960	16,854
SHEEPSHEAD, FRESH-WATER	10,973	.2	1959	13,644
BUTTERFISH	10,172	.2	1939	17,151
STRIPED BASS	9,358	.2	1961	9,495
SEA BASS, BLACK (ATLANTIC)	9,237	.2	1952	21,997
HERRING, LAKE	8,478	.2	1899	59,914
SPANISH MACKEREL	7,793	.2	1945	11,593
GROUPERS	7,758	.2	1945	8,882
WHALE PRODUCTS 3/	7,665	.2	(4)	(4)
SHAD	7,445	.2	1890	43,000
SARDINE, PACIFIC	7,131	.2	1936	1,502,299
IRISH MOSS	6,967	.1	1961	6,995
HAKE, RED	6,712	.1	(4)	(4)
SPOT	6,663	.1	1952	15,863
SABLEFISH	6,464	.1	1945	17,750
HAKE, WHITE	6,249	.1	1898	39,900
BLUEFISH	5,583	.1	5/ 1897	22,673
SEA TROUT OR WEAKFISH, SPOTTED	5,387	.1	1936	8,800
KING MACKEREL	5,058	.1	1963	5,058
SMELT	4,894	.1	1958	13,303
LINGCOD	4,790	.1	1944	14,262
ANCHOVIES	4,653	.1	1953	86,044
BONITO	4,234	.1	1947	13,918
LOBSTERS, SPINY	4,180	.1	1957	4,687
KING WHITING OR "KINGFISH"	3,899	.1	1952	5,270
SWELLFISH	3,707	.1	1963	3,707
SEA TROUT OR WEAKFISH, GRAY	3,601	.1	1945	41,420
UNCLASSIFIED	63,481	1.3	-	-
TOTAL	4,847,109	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD. 2/ FIRST YEAR IN WHICH AN OYSTER SURVEY WAS MADE IN ALL REGIONS. 3/ SINCE DATA ARE NOT AVAILABLE ON THE POUNDAGE OF WHALES TAKEN, STATISTICS ON THE YIELD OF THESE MAMMALS REPRESENT THE WEIGHT OF THE WHALE PRODUCTS WHICH INCLUDES MEAL, MEAT, AND OIL. 4/ DATA NOT AVAILABLE. 5/ INCLUDES DATA ON NEW ENGLAND CATCH IN 1898.

RELATIVE VALUE OF THE CATCH, BY SPECIES, 1963

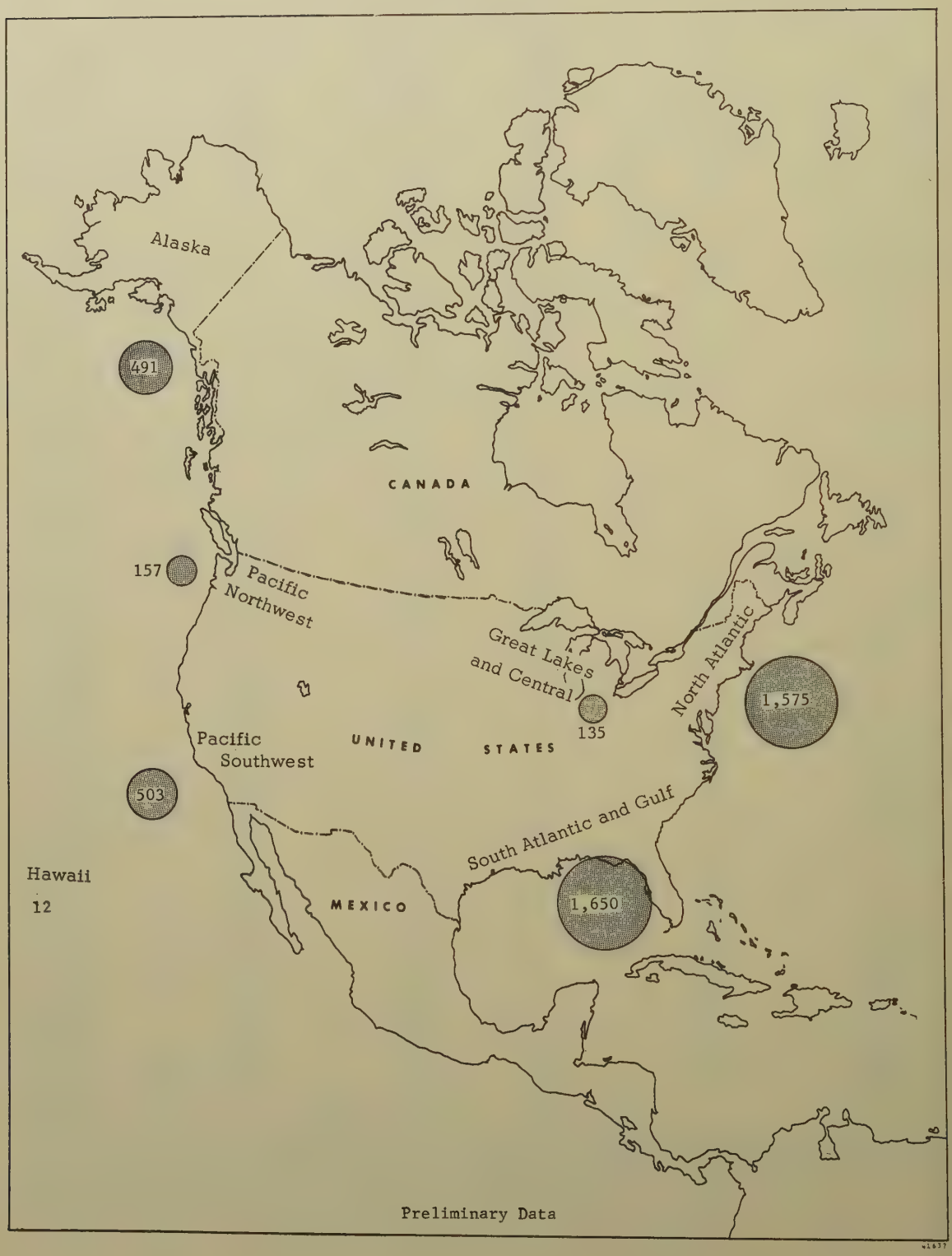
SPECIES	VALUE	PERCENT OF TOTAL	RECORD VALUE AND YEAR	
	THOUSAND DOLLARS	PERCENT	YEAR	THOUSAND DOLLARS
SHRIMP	70,044	18.6	1953	76,641
SALMON	49,012	13.0	1962	56,353
TUNA	40,170	10.6	1950	61,342
OYSTERS	27,105	7.2	1961	33,204
MENHADEN	22,386	5.9	1956	28,425
CRABS	21,354	5.7	1963	21,354
LOBSTERS, NORTHERN	16,769	4.4	1963	16,769
FLOUNDERS	15,411	4.1	1963	15,411
CLAMS	14,202	3.8	1963	14,202
HADDOCK	11,705	3.1	1946	13,043
SCALLOPS, SEA	9,257	2.5	1959	11,805
HALIBUT, PACIFIC	6,883	1.8	1962	11,579
CATFISH AND BULLHEADS	6,775	1.8	1963	6,775
OCEAN PERCH, ATLANTIC	5,147	1.4	1951	12,597
SNAPPER, RED	3,534	1.0	1963	3,534
COD:				
ATLANTIC	3,106	.9	1948	4,742
PACIFIC	350	.1	1959	664
TOTAL	3,456	1.0	-	-
SCUP OR PORGY	3,099	.8	1963	3,099
INDUSTRIAL FISH 1/	3,044	.8	1963	3,044
HERRING, SEA:				
ATLANTIC	1,704	.4	1948	3,798
PACIFIC	656	.2	1947	2,152
TOTAL	2,360	.6	-	-
MULLET	2,354	.6	1945	4,647
WHITING	2,178	.6	1951	2,903
JACK MACKEREL	2,118	.6	1952	4,755
BUFFALOFISH	1,815	.5	1952	3,564
LOBSTERS, SPINY	1,798	.5	1963	1,798
CHUBS	1,569	.4	1958	2,564
ROCKFISHES	1,328	.4	1945	2,648
STRIPED BASS	1,314	.3	1959	1,436
SEA TROUT OR WEAKFISH, SPOTTED	1,312	.3	1952	1,781
OCEAN PERCH, PACIFIC	1,172	.3	1963	1,172
SEA BASS, BLACK (ATLANTIC)	1,172	.3	1952	5,206
SHAD	1,141	.3	1945	2,680
YELLOW PERCH	1,107	.3	1958	1,540
SCALLOPS, BAY	1,077	.3	1960	1,474
CARP	1,073	.3	1951	2,007
MUSSEL SHELLS	1,062	.3	(2)	(2)
BUTTERFISH	957	.3	1962	1,005
ALEWIVES	906	.2	1963	906
MACKEREL, PACIFIC	861	.2	1957	1,231
SWORDFISH	826	.2	1946	1,435
GROUPERS	812	.2	1945	1,038
BLOODWORMS	772	.2	1963	772
SPANISH MACKEREL	720	.2	1945	1,521
POLLOCK	670	.2	1945	1,819
SABLEFISH	654	.2	1946	1,834
SPOT	636	.2	1949	975
ABALONE	626	.2	1963	626
BLUEFISH	620	.2	1951	760
POMPANO	609	.2	1941	695
KING MACKEREL	556	.1	1945	578
WHALE PRODUCTS 3/	544	.1	(2)	(2)
SQUID	531	.1	1947	1,370
SANDWORMS	526	.1	1963	526
YELLOW PIKE	488	.1	1951	2,152
WHITEFISH, COMMON	485	.1	1948	3,784
HERRING, LAKE	479	.1	1952	1,458
SHEEPSHEAD, FRESH-WATER	425	.1	1951	929
STEELHEAD TROUT	395	.1	1963	395
DRUM, RED	391	.1	1945	728
UNCLASSIFIED	7,370	1.9	-	-
TOTAL	377,162	100.0	-	-

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD. 2/ DATA NOT AVAILABLE. 3/ THE VALUE OF THE WHALE PRODUCTS REPRESENTS THE AMOUNT RECEIVED BY THE MANUFACTURER FOR THE PRODUCTION OF WHALE MEAL, MEAT, AND OIL.

U. S. CATCH

VOLUME OF CATCH BY REGIONS, 1964

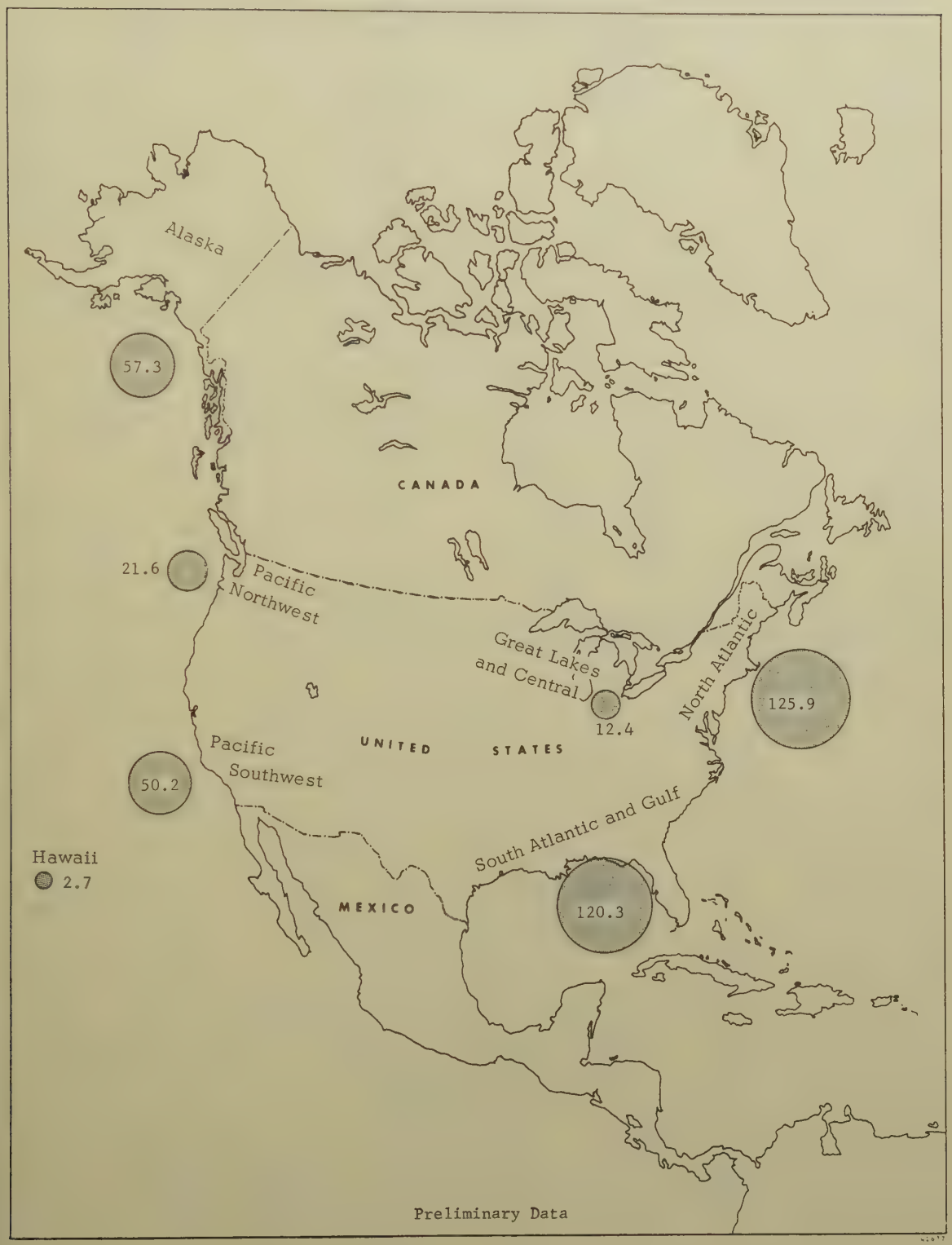
(Figures represent million pounds)



U. S. CATCH

VALUE OF CATCH BY REGIONS, 1964

(Figures represent million dollars)



U. S. CATCH

PRIBILOF ISLAND SEALSKINS

TAKE OF PRIBILOF ISLANDS SEALSKINS, 1956-64

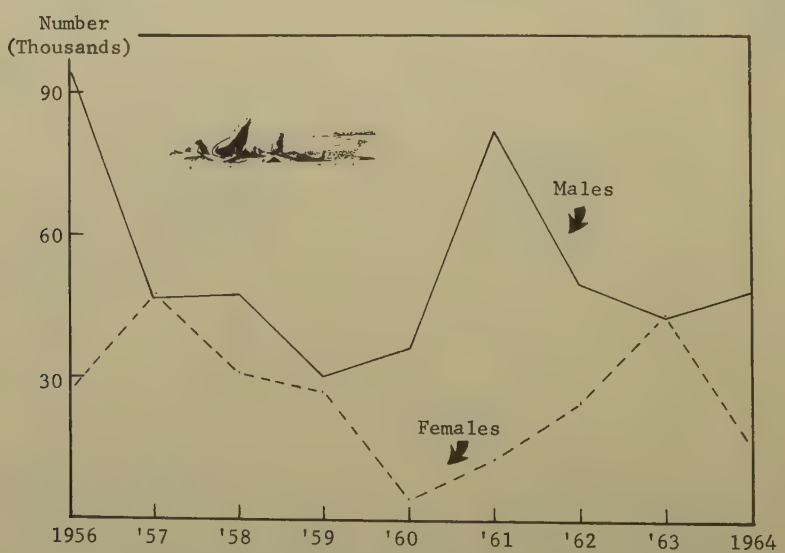
Year	Skins taken		
	Male	Female	Total
	Number	Number	Number
1956	95,849	26,977	122,826
1957	46,195	47,423	93,618
1958	47,860	31,059	78,919
1959	30,176	27,634	57,810
1960	36,320	4,296	40,616
1961	82,099	13,875	95,974
1962	53,460	24,455	77,915
1963	42,278	42,976	85,254
1964	48,223	15,986	64,209

AVERAGE VALUE OF PRIBILOF ISLANDS SEALSKINS, 1957-64

Year	Dressed, dyed, machined, and finished				Sheared	
	Male		Female		Female	
	Spring Sale	Fall Sale	Spring Sale	Fall Sale	Spring Sale	Fall Sale
	(average value per skin)					
1957	$91.56	$68.90	-	-	-	-
1958	71.27	86.14	-	-	-	-
1959	99.75	103.23	-	-	-	-
1960	101.66	104.35	-	-	-	$36.05
1961	87.94	86.69	-	-	$11.99	41.05
1962	106.42	107.53	-	-	44.33	48.40
1963	122.52	1/111.72	-	(1)	43.09	40.63
1964	105.45	85.56	$71.16	$64.34	48.82	59.65

1/ A total of 4,668 female skins were sold with the male skins.
Note:--The skins sold were taken several years prior to the date of sale.

TAKE OF PRIBILOF ISLANDS SEALSKINS, 1956-64



U. S. CATCH

WHALING

WHALE CATCH, 1964

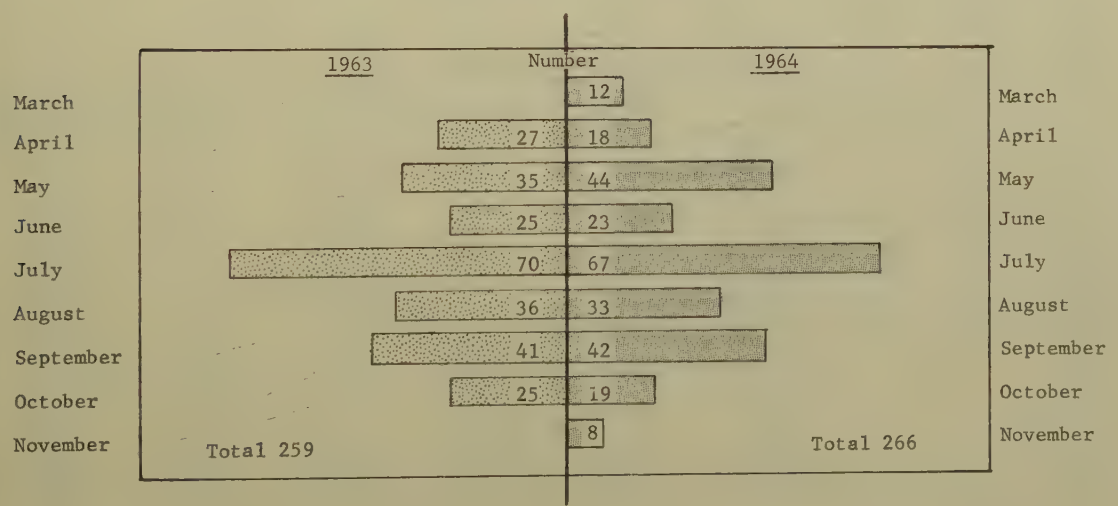
Month	Blue	Bottle-nose	Fin	Gray 1/	Hump-back	Killer	Sei	Sperm	Total
	Number	Number	Number	Number	Number	Number	Number	Number	Number
March	-	-	-	12	-	-	-	-	12
April	-	-	-	-	7	-	-	11	18
May	-	-	20	-	13	-	-	11	44
June	-	-	13	-	7	-	-	3	23
July	2	-	63	-	-	-	2	-	67
August	-	-	24	-	-	-	3	6	33
September	-	1	25	-	-	-	7	9	42
October	-	-	2	-	-	-	1	16	19
November	-	-	-	-	-	-	-	8	8
Total, 1964.	2	1	147	12	27	-	13	64	266
Total, 1963.	6	2	21	-	55	1	97	77	259

1/ Gray whale were taken under a special scientific permit.

WHALE PRODUCTS, 1964

Item	Quantity	Value
	Thousand pounds	Thousand dollars
Meal	3,328	155
Meat	4,522	383
Oil:		
Sperm	401	26
Whale	2,758	170
Total, 1964	11,009	734
Total, 1963	7,665	544

WHALE CATCH, 1963-64



Statistics on the fisheries of the United States are necessary for the best use of the Nation's aquatic resources. As series of data for extended periods of time are accumulated, the information becomes increasingly valuable in indicating trends in the supply and utilization of fishery products. The extent to which these data are used is frequently dependent upon the ready availability of needed information to researchers, management officials, and members of the fishing industry.

Periodically, there are published in "Fishery Statistics of the United States" historical data for each State on the catch of important species. The most recent publication of these data was in Statistical Digest No. 43 entitled "Fishery Statistics of the United States, 1956."

Since 1951, there have been published in each edition of "Fishery Statistics of the United States" historical data on the catch of an important species of fish or shellfish, etc. The titles of the series published and the identifying number of the Digest in which each appears follow:

Series	Published in Statistical Digest
Menhaden Fishery, 1873-1951	No. 30
Oyster Fishery, 1880-1952	No. 34
Pacific Sardine Fishery, 1915-53	No. 36
Atlantic Ocean Perch Fishery, 1930-54	No. 39
Pacific Herring Fishery, 1881-1955	No. 41
United States Haddock Fishery, 1880-1956	No. 43
United States Tuna Fishery, 1911-57	No. 44
United States Atlantic Cod Fishery, 1893-1958	No. 49
Fur Seal Industry of the Pribilof Islands, 1786-1959	No. 51
Eastern Pacific Halibut Fishery, 1888-1960	No. 53
California Mackerel Fisheries, 1889-1961	No. 54
Atlantic Mackerel Fishery, 1804-1962	No. 56

Data on the catch of items included in the series for the years 1950 through 1964 are contained in the following table. Also included are data on the catch of other important species of fish and shellfish for the same period.

CATCH OF MAJOR SPECIES OF FISH AND SHELLFISH AND NUMBER OF SEALS HARVESTED, 1950-64

(Thousands of pounds)

Year	Cod			Flounders, Atlantic and Gulf		
	Atlantic	Pacific	Total	Blackback	Fluke	Yellowtail
1950	57,160	7,088	64,248	23,571	13,601	24,115
1951	50,023	9,568	59,591	17,433	13,988	18,430
1952	43,686	10,844	54,530	15,778	17,470	16,987
1953	32,660	8,641	41,301	11,950	18,369	13,773
1954	36,824	16,652	53,476	11,794	19,578	12,763
1955	35,582	13,090	48,672	11,681	18,600	14,373
1956	35,127	9,825	44,952	14,233	21,289	14,643
1957	34,068	11,928	45,996	13,775	19,612	22,454
1958	41,362	12,785	54,147	14,465	19,632	33,325
1959	46,481	13,328	59,809	15,080	19,701	29,811
1960	40,381	5,372	45,753	17,298	19,851	31,207
1961	46,591	3,067	49,658	16,971	17,506	39,398
1962	46,910	3,185	50,095	17,490	13,587	60,590
1963	42,177	6,369	48,546	18,219	10,943	82,691
1964 7/	38,500	6,300	44,800	20,800	9,700	82,900

See footnotes at end of table. (Continued on next page)

CATCH OF MAJOR SPECIES OF FISH AND SHELLFISH AND NUMBER OF SEALS HARVESTED, 1950-64 - Continued

(Thousands of pounds)

Year	Flounders, Atlantic-Continued		Haddock	Halibut, Pacific (Landed weight) 1/		
	Other	Total		United States	Canadian	Total
1950	20,608	81,895	158,559	38,650	18,999	57,649
1951	22,547	72,398	154,103	35,329	21,045	56,374
1952	19,935	70,170	161,497	38,049	24,779	62,828
1953	19,402	63,494	139,603	34,662	25,853	60,515
1954	20,005	64,140	154,934	43,680	27,526	71,206
1955	18,751	63,405	135,035	36,924	22,148	59,072
1956	14,946	65,111	152,246	41,908	25,597	67,505
1957	13,457	59,298	133,571	36,641	24,754	61,395
1958	9,839	77,261	119,554	36,295	28,918	65,213
1959	10,435	75,027	112,629	40,821	30,894	71,715
1960	11,009	79,365	118,697	38,302	33,613	71,915
1961	11,513	85,388	133,597	40,025	29,466	69,491
1962	12,787	104,454	134,250	40,416	34,673	75,089
1963	13,646	125,499	123,972	34,260	37,133	71,393
1964 7/	15,400	128,800	133,400	26,400	33,600	60,000

Year	Herring, sea		Jack Mackerel	Mackerel			Menhaden 2/
	Atlantic	Pacific		Atlantic	Pacific	Total	
1950	196,534	170,300	133,256	22,094	32,650	54,744	1,026,318
1951	67,212	93,700	89,838	15,748	33,518	49,266	1,127,065
1952	155,167	55,700	146,522	18,187	20,605	38,792	1,383,592
1953	111,252	40,800	55,751	8,545	7,502	16,047	1,696,076
1954	130,195	36,500	17,334	4,017	25,393	29,410	1,737,767
1955	105,683	66,600	35,755	3,871	23,310	27,181	1,867,783
1956	147,901	109,730	75,762	4,034	50,013	54,047	2,097,239
1957	161,602	120,577	82,012	2,418	62,044	64,462	1,690,128
1958	179,008	99,509	22,066	4,574	27,648	32,222	1,549,098
1959	121,377	114,712	37,507	4,047	37,602	41,649	2,202,732
1960	155,198	83,820	74,945	3,078	36,810	39,888	2,018,263
1961	58,243	54,491	97,606	3,012	44,110	47,122	2,314,677
1962	158,536	41,570	90,363	2,076	48,579	50,655	2,347,944
1963	154,770	38,834	95,843	2,915	40,243	43,158	1,815,798
1964 7/	62,500	49,900	89,600	4,200	26,800	31,000	1,566,800

Year	Mullet	Ocean perch, Atlantic	Pollock	Salmon, Pacific			
				Chinook or king	Chum or keta	Pink	Red or sockeye
1950	35,024	207,793	25,648	36,559	74,611	85,773	91,476
1951	39,163	258,307	22,717	43,201	65,133	147,644	66,181
1952	36,755	189,029	26,956	40,797	77,405	79,521	110,147
1953	34,473	153,893	23,912	39,179	64,565	97,170	83,348
1954	33,997	181,448	20,411	36,415	76,233	88,694	91,736
1955	35,237	156,989	23,160	42,784	32,614	128,179	57,586
1956	37,109	151,113	23,023	38,158	59,968	102,156	94,248
1957	39,958	133,931	22,034	30,509	68,737	71,652	67,511
1958	42,771	148,645	32,894	27,583	68,011	120,721	67,812
1959	41,097	136,703	24,545	27,414	38,535	61,740	53,790
1960	40,839	141,433	22,334	24,057	49,811	52,588	95,326
1961	42,813	132,062	21,406	26,962	48,139	108,452	103,644
1962	43,165	123,983	16,333	25,111	60,345	143,309	58,049
1963	42,734	108,292	14,607	27,179	38,840	156,603	43,424
1964 7/	39,800	89,300	13,300	27,400	64,100	165,100	57,100

See footnotes at end of table. (Continued on next page)

CATCH OF MAJOR SPECIES OF FISH AND SHELLFISH AND NUMBER OF SEALS HARVESTED, 1950-64 - Continued

(Thousands of pounds)

Year	Salmon		Sardine, Pacific	Scup or porgy	Tuna, Pacific 3/		
	Silver or coho	Total			Albacore	Bluefin 4/	Little
1950	40,225	328,644	714,522	35,528	72,476	4,586	-
1951	52,064	374,223	328,894	36,689	34,547	5,897	-
1952	44,404	352,274	14,330	33,759	52,663	6,783	-
1953	28,672	312,934	9,469	43,945	34,749	12,599	-
1954	31,637	324,715	136,504	46,909	27,027	23,784	-
1955	28,717	289,880	145,608	44,765	29,758	15,763	-
1956	29,719	324,249	69,554	36,978	41,351	14,897	-
1957	26,744	265,153	45,862	34,108	46,669	21,948	-
1958	23,327	307,454	207,446	38,973	38,461	32,315	-
1959	20,205	201,684	74,367	47,173	46,295	16,516	19
1960	13,665	235,447	57,534	49,229	40,211	13,248	4
1961	23,201	310,398	43,170	46,584	32,844	21,920	2
1962	27,752	314,566	15,363	46,306	45,955	39,496	30
1963	28,131	294,177	7,131	41,922	60,802	41,313	72
1964 7/	39,700	353,400	13,000	38,600	48,000	30,400	60

Year	Tuna, Pacific - continued			Whiting	Crabs		
	Skipjack	Yellowfin	Total		Blue	Dungeness	King
1950	136,098	188,612	401,772	67,332	126,073	27,930	1,519
1951	129,476	162,238	332,158	120,076	114,356	29,332	1,994
1952	92,136	179,675	331,257	108,437	104,236	26,469	2,773
1953	135,037	133,962	316,347	89,625	110,540	26,578	4,613
1954	167,777	119,928	338,516	95,257	101,541	28,481	8,871
1955	112,147	123,652	281,320	118,876	101,297	24,334	8,163
1956	134,849	151,227	342,324	93,923	98,337	34,184	8,796
1957	96,951	137,623	303,191	133,041	113,728	42,774	13,077
1958	130,207	124,135	325,118	111,404	110,934	42,097	11,212
1959	110,895	108,939	282,664	115,192	116,488	36,947	18,840
1960	53,660	189,663	296,786	111,602	154,697	36,157	28,570
1961	76,354	192,313	323,433	100,729	152,758	32,699	43,412
1962	102,221	124,455	312,157	105,088	155,218	23,364	52,782
1963	108,997	5/110,435	321,619	92,643	145,257	24,863	78,740
1964 7/	76,900	5/149,800	305,160	94,100	155,200	23,800	86,700

Year	Crabs - continued		Lobsters, northern	Shrimp			
	Other	Total		South Atlantic and Gulf	Pacific	Other	Total
1950	3,756	159,278	23,198	188,234	3,132	108	191,474
1951	2,431	148,113	25,946	221,422	2,750	144	224,316
1952	1,629	135,107	25,031	223,939	3,088	194	227,221
1953	2,416	144,147	28,115	257,436	2,797	124	260,357
1954	1,754	140,647	27,481	265,799	2,517	18	268,334
1955	1,939	135,733	28,954	240,941	3,381	13	244,335
1956	2,082	143,399	26,520	219,139	5,016	18	224,173
1957	1,760	171,339	30,155	197,043	6,811	28	203,882
1958	2,136	166,379	27,227	195,938	17,891	13	213,842
1959	2,355	174,630	29,085	219,509	20,652	21	240,182
1960	2,257	221,681	31,168	236,939	12,418	95	249,452
1961	2,737	231,606	27,998	153,544	20,912	74	174,530
1962	2,976	234,340	29,497	167,804	22,906	396	191,106
1963	3,474	252,334	30,274	218,645	21,260	573	240,478
1964 7/	3,000	268,700	26,900	196,400	11,000	900	208,300

See footnotes at end of table.

(Continued on next page)

CATCH OF MAJOR SPECIES OF FISH AND SHELLFISH AND NUMBER OF SEALS HARVESTED, 1950-64 - Continued

(Thousands of pounds)

Year	Clam (meats)					Oyster (meats)	
	Hard	Soft	Razor	Surf 6/	Total	Eastern	Pacific
1950	21,049	9,390	2,543	8,074	41,056	68,192	8,080
1951	20,801	9,021	2,801	10,762	43,385	64,305	8,597
1952	17,573	7,332	1,759	13,181	39,845	72,165	9,957
1953	16,976	5,666	1,930	13,009	37,581	69,319	10,283
1954	13,519	5,129	1,633	12,108	32,389	70,971	10,855
1955	14,385	5,112	2,436	12,495	34,428	65,855	11,602
1956	14,693	6,116	981	16,409	38,199	63,225	11,882
1957	14,767	5,716	1,039	18,366	39,888	60,013	11,614
1958	14,280	6,599	786	14,744	36,409	55,165	11,197
1959	13,553	7,131	965	23,346	44,995	52,339	12,328
1960	14,877	8,579	824	25,292	49,572	48,982	10,983
1961	14,604	7,363	725	27,638	50,330	52,113	10,154
1962	13,295	9,396	529	30,949	54,169	45,297	10,714
1963	14,529	9,754	409	38,711	63,403	48,667	9,746
1964 7/	14,400	10,900	500	38,200	64,000	50,500	9,668

Year	Oyster (meats) continued		Scallops, sea (meats)	Other	Grand total, U. S. catch	Sealskins Harvested
	Western	Total				
	(Thousands of pounds)					(Number)
1950	143	76,415	19,980	634,616	4,900,826	60,537
1951	88	72,990	18,746	624,395	4,433,393	51,506
1952	120	82,242	18,630	692,022	4,432,403	63,950
1953	117	79,719	23,618	715,585	4,486,822	66,723
1954	96	81,922	17,631	730,307	4,762,453	63,882
1955	58	77,515	22,125	770,419	4,809,377	65,453
1956	27	75,134	20,066	859,457	5,268,246	122,826
1957	31	71,658	20,994	854,747	4,789,186	93,608
1958	34	66,396	18,977	819,518	4,747,206	78,919
1959	43	64,710	24,644	797,882	5,121,953	57,810
1960	45	60,010	26,599	680,265	4,942,229	40,616
1961	38	62,305	27,461	695,493	5,186,709	95,974
1962	26	56,037	24,634	755,817	5,354,185	77,915
1963	31	58,444	19,939	762,681	4,847,109	85,254
1964 7/	32	60,200	17,000	789,347	4,523,000	64,209

1/ Landed weight of halibut can be converted to round weight by multiplying by 1.33.
2/ The catch of menhaden represents the total catch of these fish. The historical figures published in Statistical Digest No. 30 represented the catch used for reduction which normally accounted for over 99 percent of the total catch.
3/ Does not include the catch taken in Puerto Rico.
4/ Includes data on the catch of big-eye tuna in Hawaii.
5/ Includes a small amount of unclassified tuna.
6/ Includes a small amount of other clams.
7/ Preliminary.

Note:--This table will not add because halibut has been shown in landed rather than round weight.

ADDITIONS TO THE U.S. FISHING FLEET, 1964

GROSS TONNAGE	BY TONNAGE GROUPS									
	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC COAST	GREAT LAKES	HAWAII	PUERTO RICO	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
5 - 9	12	-	30	3	12	16	-	-	-	73
10 - 19	9	3	6	3	59	59	3	1	-	143
20 - 29	1	1	2	2	15	24	-	-	-	45
30 - 39	2	-	-	5	7	17	1	-	-	32
40 - 49	-	-	-	4	7	11	-	-	1	23
50 - 59	1	2	-	4	14	9	-	-	-	30
60 - 69	-	1	-	3	29	1	-	-	-	34
70 - 79	1	1	-	14	50	-	-	-	-	66
80 - 89	-	-	-	4	21	-	-	-	-	25
90 - 99	2	-	-	7	3	1	-	-	-	13
100 - 109	1	-	-	-	2	-	-	-	-	3
110 - 119	2	1	-	-	-	-	-	-	-	3
130 - 139	1	-	-	-	-	-	-	-	-	1
160 - 169	-	-	-	-	-	1	-	-	-	1
180 - 189	1	-	-	-	-	-	-	-	-	1
220 - 229	-	-	-	-	1	-	-	-	-	1
310 - 319	-	-	-	-	1	-	-	-	-	1
320 - 329	-	-	-	-	1	-	-	-	-	1
360 - 369	-	-	-	-	-	1	-	-	-	1
430 - 439	-	-	-	-	-	1	-	-	-	1
450 - 459	-	-	1	-	-	-	-	-	-	1
490 - 499	-	-	-	-	-	1	-	-	-	1
520 - 529	-	1	-	-	-	-	-	-	-	1
540 - 549	-	1	-	-	-	-	-	-	-	1
800 - 809	-	-	-	-	-	1	-	-	-	1
TOTAL	33	11	39	49	222	143	4	1	1	503

LENGTH IN FEET	BY LENGTH DISTRIBUTION									
	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC COAST	GREAT LAKES	HAWAII	PUERTO RICO	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
23 - 29	7	-	1	2	9	29	1	-	-	49
30 - 39	13	1	32	2	55	56	3	1	-	163
40 - 49	4	2	5	8	26	49	-	-	-	94
50 - 59	2	1	-	6	23	2	-	-	-	34
60 - 69	-	4	-	31	106	2	-	-	1	144
70 - 79	5	1	-	-	-	-	-	-	-	6
80 - 89	1	-	-	-	-	1	-	-	-	2
100 - 109	1	-	-	-	-	-	-	-	-	1
110 - 119	-	-	-	-	1	-	-	-	-	1
120 - 129	-	-	-	-	-	1	-	-	-	1
130 - 139	-	-	-	-	2	-	-	-	-	2
140 - 149	-	-	-	-	-	1	-	-	-	1
150 - 159	-	-	1	-	-	2	-	-	-	3
160 - 169	-	2	-	-	-	-	-	-	-	2
TOTAL	33	11	39	49	222	143	4	1	1	503

HORSE POWER	BY HORSE POWER DISTRIBUTION									
	NEW ENGLAND	MIDDLE ATLANTIC	CHESA-PEAKE	SOUTH ATLANTIC	GULF	PACIFIC COAST	GREAT LAKES	HAWAII	PUERTO RICO	TOTAL
	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER	NUMBER
UNDER 50	-	-	2	-	2	5	1	-	-	10
50 - 99	3	-	3	2	14	9	1	-	-	32
100 - 149	8	1	16	3	35	40	1	-	-	104
150 - 199	3	2	9	10	59	43	1	-	-	127
200 - 249	7	1	6	7	58	19	-	1	1	100
250 - 299	1	1	-	1	6	9	-	-	-	18
300 - 349	3	-	1	26	42	11	-	-	-	83
350 - 399	4	1	-	-	2	-	-	-	-	7
400 - 499	2	1	1	-	1	2	-	-	-	7
500 - 599	1	1	-	-	-	1	-	-	-	3
600 - 699	-	-	-	-	1	1	-	-	-	2
700 - 799	1	-	-	-	-	-	-	-	-	1
800 - 899	-	1	-	-	-	-	-	-	-	1
900 - 999	-	1	-	-	1	-	-	-	-	2
1000 - 1099	-	1	-	-	-	1	-	-	-	2
1300 - 1399	-	-	-	-	1	-	-	-	-	1
1500 - 1599	-	-	1	-	-	-	-	-	-	1
1600 - 1699	-	-	-	-	-	1	-	-	-	1
1800 - 1899	-	-	-	-	-	1	-	-	-	1
TOTAL	33	11	39	49	222	143	4	1	1	503

EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1930-63

Item	1930	1940	1950	1960	1963
	Number	Number	Number	Number	Number
Persons employed:					
Direct:					
Fishermen	119,716	124,795	161,463	130,431	128,470
Shoreworkers	78,996	90,215	102,015	93,625	87,252
Indirect:					
Allied industries (gear manufacture, boat building, processing equipment, etc.)	200,000	210,000	300,000	313,000	315,000
Total	398,712	425,010	563,478	537,056	530,722
Craft utilized, fishing:					
Vessels (5 net tons and over)	4,374	5,562	11,496	12,018	11,928
Motor boats	35,437	31,055	46,067	56,889	62,090
Other boats	37,961	35,193	34,747	8,150	3,955
Total	77,772	71,810	92,310	77,057	77,973
Vessels, documented for fishing:					
First documentation	(1)	320	812	408	569
Redocumentation	(1)	(1)	29	24	21
Total	(1)	(1)	841	432	590
Fishery shore establishments:					
Pacific Coast States	569	579	700	515	593
Atlantic Coast and Gulf States	2,024	2,038	2,699	2,898	2,918
Great Lakes and Mississippi River States	402	438	484	772	667
Hawaii	(1)	(1)	(1)	22	16
Total	2,995	3,055	3,883	4,207	4,194

1/ Data not available.

PER CAPITA CONSUMPTION

CONSUMPTION OF FISH AND SHELLFISH

Available data indicate that per capita consumption of commercially-caught fish and shellfish in 1964 amounted to 10.6 pounds--the same as in the previous 2 years. Not included in this figure is an estimated annual per capita consumption of over 3 pounds taken by sportsmen or for home use by others.

Despite strong competition from other animal protein foods, annual per capita consumption of commercially-caught fish and shellfish in the United States has, for many years, averaged 10 to 11 pounds, except for the periods 1931 to 1934, and 1942 to 1944 when consumption declined sharply due to the depression of the 1930's and World War II.

Although consumption of fresh and frozen fish and shellfish has not shown significant change in the past 30 years, considerable variation has taken place in the species consumed. Haddock, Atlantic mackerel, and oysters have shown significant declines because of reduced supplies. Consumption of ocean perch, cod, and shrimp have increased due to the development of the ocean perch fishery, growth of the domestic shrimp fishery, and large increases in imports of cod and shrimp.

Per capita consumption of canned fishery products reached a peak in the 1930's averaging 4.7 pounds during the years from 1934 to 1939. Following the latter year, consumption declined, and in the 1950's, averaged just over 4.0 pounds. Due to reduced production, consumption of canned salmon declined from an average of 2.4 pounds per capita in the 1930's to less than 1 pound since 1958. Consumption of canned Pacific sardines also dropped sharply due to reduced supplies. An outstanding change has been the rapid growth of the market for canned tuna. Consumption of this product amounted to one-half pound per capita in 1935, 1 pound in 1949, and 2 pounds or more since 1959.

Consumption of cured fishery products fell steadily from an estimated 3 to 4 pounds per capita early in the century to about one-half pound in recent years.

PER CAPITA CONSUMPTION OF COMMERCIALLY-CAUGHT FISH AND SHELLFISH, 1962-64

(Edible weight)

Item	1962	1963	1964 1/
	Pounds	Pounds	Pounds
Fresh and frozen	5.8	5.7	5.9
Canned	4.3	4.4	4.2
Cured	.5	.5	.5
Total	10.6	10.6	10.6

1/ Preliminary.

PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1936-40 AND 1946-64

Year	Mackerel, Pacific and jack	Salmon	Sardines, Maine and Pacific 1/	Tuna 2/	Shell-fish	Other	Total
	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds	Pounds
1936. . . .	.5	3.0	1.3	.4	.4	.2	5.8
1937. . . .	.3	2.6	1.3	.5	.4	.2	5.3
1938. . . .	.3	2.4	1.0	.5	.4	.2	4.8
1939. . . .	.3	2.1	1.1	.6	.5	.1	4.7
1940. . . .	.4	2.0	1.0	.6	.5	.1	4.6
1946. . . .	.3	1.2	.9	.7	.4	.3	3.8
1947. . . .	.4	1.3	.9	.8	.2	.1	3.7
1948. . . .	.4	1.6	1.1	.9	.3	.1	4.4
1949. . . .	.3	1.6	1.2	.9	.3	.2	4.5
1950. . . .	.4	1.4	1.4	1.1	.4	.2	4.9
1951. . . .	.3	1.4	.8	1.2	.4	.2	4.3
1952. . . .	.4	1.4	.5	1.3	.3	.4	4.3
1953. . . .	.2	1.3	.7	1.4	.4	.3	4.3
1954. . . .	.1	1.1	.8	1.4	.4	.5	4.3
1955. . . .	.2	1.0	.6	1.4	.4	.3	3.9
1956. . . .	.2	1.1	.4	1.6	.4	.3	4.0
1957. . . .	.3	1.0	.4	1.6	.4	.3	4.0
1958. . . .	.1	1.1	.6	1.8	.4	.3	4.3
1959. . . .	.1	.9	.6	1.9	.5	.4	4.4
1960. . . .	.2	.7	.4	2.0	.4	.3	4.0
1961. . . .	.2	.8	.5	2.1	.4	.3	4.3
1962. . . .	.3	.9	.3	2.1	.4	.3	4.3
1963. . . .	.3	.9	.4	2.0	.5	.3	4.4
1964 3/ . .	.3	.7	.4	2.1	.5	.2	4.2

1/ Includes imports of some canned herring for the years prior to 1950.
2/ Includes imports of bonito and yellowtail for the years prior to 1949.
3/ Preliminary.

PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1936-40 and 1946-64

(Pounds of edible meat)

Year	Groundfish and ocean perch fillets and blocks 1/	Shrimp 2/	Year	Groundfish and ocean perch fillets and blocks 1/	Shrimp 2/
	Raw, fresh and frozen	Raw, all preparations		Raw, fresh and frozen	Raw, all preparations
1936.	0.74	0.35	1952.	1.47	0.98
1937.	0.74	0.45	1953.	1.40	0.98
1938.	0.77	0.45	1954.	1.50	0.99
1939.	0.79	0.48	1955.	1.50	1.03
			1956.	1.41	0.99
1940.	0.81	0.52	1957.	1.54	0.88
1946.	1.14	0.76	1958.	1.50	0.96
1947.	1.14	0.69	1959.	1.46	1.15
1948.	1.26	0.69			
1949.	1.32	0.71	1960.	1.44	1.20
			1961.	1.62	1.12
			1962.	1.69	1.04
1950.	1.30	0.78	1963.	1.67	1.14
1951.	1.58	0.93	1964 3/ . . .	1.76	1.18

1/ Imports and frozen inventories not available prior to 1939.
2/ Frozen inventories not available prior to 1939. Weight based on uncooked edible meat.
3/ Preliminary.

PER CAPITA CONSUMPTION

ANNUAL PER CAPITA SUPPLY OF FISH AND SHELLFISH, BY REGION AND COUNTRY, LATEST AVAILABLE DATA

Region and country	Period	Estimated edible weight
		Pounds
Europe:		
Austria	1962-63	8.8
Belgium-Luxembourg	1962-63	11.0
Denmark	1961-62	35.3
Finland	1961-62	26.5
France	1959-60	13.2
Germany (Federal Republic)	1962-63	15.4
Greece	1962	22.0
Ireland	1962	8.8
Italy	1962-63	11.0
Netherlands	1962-63	17.6
Norway	1962-63	44.1
Portugal	1962	46.3
Spain	1961-62	24.3
Sweden	1962-63	46.3
Switzerland	1962-63	8.8
United Kingdom	1962-63	22.0
Yugoslavia	1962	2.2
North America:		
Canada	1962-63	17.6
United States	1962	10.6
Latin America:		
Argentina	1961	4.4
Brazil	1961	6.6
Chile	1961	19.8
Colombia	1961	4.4
Dominican Republic	1959	6.6
Ecuador	1961	11.0
Honduras	1962	2.2
Mexico	1961	6.6
Peru	1961	17.6
Surinam	1959-61	26.5
Uruguay	1961	4.4
Venezuela	1961	13.2
Far East:		
Ceylon	1962	13.2
China, Taiwan	1962	30.9
India	1961-62	2.2
Japan	1961	59.5
Pakistan	1961-62	4.4
Philippines	1962	22.0
Africa and Near East:		
Israel	1961-62	15.4
Jordan	1962	2.2
Lebanon	1960-61	4.4
Libya	1959	2.2
Cyrenaica	1958	2.2
Mauritius	1962	13.2
Rhodesia and Nyasaland (Federal Republics of Southern Rhodesia)	1953	4.4
South Africa	1960-61	19.8
Syria	1957	2.2
Turkey	1960-61	4.4
United Arab Republic	1961-62	11.0
Oceania:		
Australia	1961-62	11.0
New Zealand	1962	13.2

Note:--Data for most countries are tentative.

Source:--Production Yearbook, 1963, Volume 17, Food and Agriculture Organization of the United Nations.

CANNED PACK

The 1964 pack of canned fishery products in the United States, American Samoa, and Puerto Rico amounted to 35.2 million standard cases (1,079,958,030 pounds) valued at $431.0 million to the packers. Compared with the pack in 1963, production was up 648,000 cases and $9.4 million. The production gain resulted mainly from a record pack of tuna and increases in the packs of salmon and animal food. There were smaller packs of mackerel, Maine sardines, crab meat, clam chowder and juice, oysters and shrimp.

PACK OF CERTAIN CANNED PRODUCTS, 1963-64

Item	Pounds per case	1963	1964 1/	Record pack	
		Thousand standard cases	Thousand standard cases	Year	Thousand standard cases
Tuna	(2)	16,556	17,689	1964	17,689
Salmon	48	3,295	3,745	1936	8,965
Sardines:					
Maine	23.4	1,619	866	1950	3,844
Pacific	45	57	121	1950	5,071
Mackerel, jack and Pacific	45	1,275	1,071	1947	1,755
Crab meat	19.5	377	292	1963	377
Shrimp	15	1,060	649	1937	1,435
Clams:					
Whole and minced	15	548	579	1962	599
Chowder and juice	30	1,684	1,237	1963	1,684
Oysters	14	446	422	1937	760
Animal food and bait	48	6,395	7,364	1960	8,802
Other	Various	1,259	1,183	-	-
Total	-	34,571	35,218	-	-

1/ Preliminary.
2/ Solid, 21 pounds; chunk, 19.5 pounds; flakes and grated, 18 pounds.

PRODUCTION OF CANNED FISHERY PRODUCTS, VARIOUS YEARS, 1936-64

Year	For human consumption		For animal food and bait		Total
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand dollars
1936	756,593	93,759	12,980	805	94,564
1940	646,130	92,192	35,064	1,990	94,182
1948	718,665	329,210	63,543	6,971	336,181
1949	762,291	286,841	92,724	8,663	295,504
1950	*836,485	317,464	130,630	13,871	331,335
1951	687,999	289,534	112,410	11,676	301,210
1952	641,604	290,161	167,891	15,668	305,829
1953	605,894	289,526	186,300	17,348	306,874
1954	669,209	312,598	193,314	18,420	331,018
1955	586,755	274,967	256,941	28,198	303,165
1956	655,986	316,082	321,777	33,434	349,516
1957	639,965	300,750	347,637	35,079	335,829
1958	733,519	345,616	361,083	42,966	388,582
1959	622,150	310,262	346,985	37,989	348,251
1960	660,928	342,747	*422,490	44,848	387,595
1961	708,707	382,809	334,033	40,027	422,836
1962	756,816	*410,198	376,408	*46,683	*456,881
1963	728,937	381,329	306,972	40,278	421,607
1964 1/	726,506	385,355	353,452	45,634	430,989

1/ Preliminary. * Record.

MANUFACTURED FISHERY PRODUCTS

FISH MEAL, OIL, AND SOLUBLES

A total of 235,252 tons of fish meal was produced in the United States, American Samoa, and Puerto Rico in 1964. This was a decrease of 8 percent compared with the 1963 production. Menhaden meal comprised 68 percent of the 1964 total.

Production of fish and fish liver oils in the United States and Puerto Rico totaled 180.2 million pounds--3 percent less than in the previous year. Menhaden oil accounted for 157.7 million pounds or 88 percent of the production.

The yield of fish solubles amounted to 93,296 tons--a decrease of 6,882 tons when compared to 1963. There was no production of homogenized condensed fish during 1964.

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1963-64

Product	1963	1964 1/	Record	
			Year	Quantity
	Thousand tons	Thousand tons	Year	Thousand tons
Meal:				
Menhaden	184.2	160.3	1961	247.6
Sardine, Pacific	(2)	(2)	1936	121.7
Herring	7.5	8.9	1937	20.5
Tuna and mackerel	27.0	21.1	1963	27.0
Unclassified	37.2	45.0	-	-
Total	255.9	235.3	1962	312.3
	Thousand pounds	Thousand pounds		Thousand pounds
Oil:				
Menhaden	167,635	157,730	1961	235,167
Sardine, Pacific	(2)	(2)	1936	195,986
Herring	5,709	10,354	1937	42,172
Tuna and mackerel	5,903	4,816	1950	6,633
Unclassified	6,580	7,298	-	-
Total	185,827	180,198	1936	299,264
	Tons	Tons		Tons
Homogenized condensed fish	7,224	-	1956	29,788
Fish solubles	100,178	93,296	1959	136,662

1/ Preliminary.

2/ Included with unclassified.

FROZEN FISH

The 1964 production of frozen fish and shellfish in the United States by firms reporting to the Bureau of Commercial Fisheries totaled 332.3 million pounds. Of this amount, salt-water fish comprised 45 percent; shellfish, 37; bait and animal food from both fresh-water and salt-water fish, 17; and fresh-water fish, 1 percent.

New England States accounted for 38 percent of the 1964 production followed by South Central States with 23 percent. Alaska, Pacific States, and South Atlantic States accounted for 12 percent each. The remaining 3 percent was frozen in the Middle Atlantic, North Central East, and North Central West States.

Leading products frozen during 1964 were shrimp, 106.9 million pounds; bait and animal food, 57.2 million pounds; blocks, fillets, and steaks, 50.2 million pounds; headed and gutted whiting, 27.4 million pounds; and dressed halibut, 24.8 million pounds.

FREEZINGS AND HOLDINGS OF FISH AND SHELLFISH, 1963-64

Item	1963	1964	Record production	
	Thousand pounds	Thousand pounds	Year	Thousand pounds
Freezings:				
Leading items:				
Bait and animal food	59,993	57,194	1961	67,564
Blocks, fillets, and steaks:				
Ocean perch	26,024	19,282	1951	71,400
Haddock	10,824	12,795	1950	25,224
Other	22,928	18,178	-	-
Round, dressed, etc.:				
Halibut	32,814	24,762	1962	43,306
Whiting	21,543	27,396	1951	45,520
Salmon	15,575	16,885	1945	30,009
Other	35,228	33,645	-	-
Shellfish:				
Shrimp	112,496	106,857	1963	112,496
Other	14,041	15,290	-	-
Total all fishery products	351,466	332,284	1963	351,466
High month	(July) 48,444	(July) 51,095	-	-
Low month	(Feb.) 15,374	(Feb.) 14,929	-	-
Holdings:				
High month	(Nov.)248,654	(Jan.)219,919	-	-
Low month	(Mar.)153,511	(Apr.)155,693	-	-

MANUFACTURED FISHERY PRODUCTS

FISH STICKS, PORTIONS, AND BREADED SHRIMP

PRODUCTION OF FISH STICKS AND PORTIONS, 1954-64

Year	Fish sticks		Fish portions	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1954	49,962	26,506	(1)	(1)
1955	63,046	28,886	(1)	(1)
1956	52,818	23,193	(1)	(1)
1957	53,128	23,544	(1)	(1)
1958	61,011	27,000	21,790	7,972
1959	60,378	28,611	37,147	13,138
1960	65,142	28,671	49,381	17,517
1961	69,824	30,100	59,847	22,192
1962	72,217	30,076	78,678	28,089
1963	*79,302	*31,590	94,644	33,980
1964 2/	73,532	29,971	*105,632	*36,289

1/ Data not available. 2/ Preliminary. *Record.

Note:--A fish stick, generally cut from a block of fillets, is an elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/4 ounces with the largest dimension at least three times that of the next largest dimension. A fish portion, generally cut from a block of fillets, is a piece of fish flesh generally of uniform size with a thickness of 3/8 of an inch or more, and which does not conform to the definition of a fish stick.

PRODUCTION OF BREADED SHRIMP, 1954-64

Year	Breaded	
	Thousand pounds	Thousand dollars
1954	24,802	17,579
1955	38,991	26,907
1956	50,888	37,301
1957	51,085	37,764
1958	60,865	43,622
1959	69,764	45,314
1960	70,348	47,015
1961	73,795	55,089
1962	76,803	62,230
1963	76,216	53,527
1964 1/	*90,678	*63,041

1/ Preliminary. *Record.

Note:--Breaded shrimp are peeled shrimp coated with breading ingredients. The product may be identified as fantail (butterfly) and round with or without tail fins and last shell segments; and as portions, sticks, steaks, etc., when prepared from a composite unit of 2 or more shrimp pieces, whole shrimp or a combination of both without fins or shell.

MANUFACTURED FISHERY PRODUCTS

PACKAGED FISH

PRODUCTION OF PACKAGED FISH, 1964

Item	Fillets		Steaks		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fresh	75,754	28,821	155	65	75,909	28,886
Frozen	68,281	21,184	10,244	5,060	78,525	26,244
Total	144,035	50,005	10,399	5,125	154,434	55,130

VALUE

VALUE OF MANUFACTURED FISHERY PRODUCTS AT PROCESSORS' LEVEL, 1963-64

(Produced from domestic catch and imported products)

Item	1963		1964
	Thousand dollars	Percent of total	Thousand dollars
Canned	421,607	46.2	430,989
Packaged:			
Fillets and steaks	57,461	6.3	55,130
Fish sticks	31,590	3.4	29,971
Fish portions	33,980	3.7	36,289
Breaded shrimp	53,527	5.9	63,041
Other (fish and shellfish)	198,440	21.7	(1)
Cured	48,253	5.3	(1)
Industrial products	68,601	7.5	69,647
Total	913,459	100.0	(1)

1/ Data not available.

INDUSTRIAL PRODUCTS

PRODUCTION OF INDUSTRIAL PRODUCTS, 1950-64

Year	Quantity			Value			
	Fish meal	Fish solubles 1/	Marine animal oil 2/	Fish meal, oil, and solubles	Shell products	Other industrial products	Grand total
	Tons	Tons	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars
1950	239,954	51,863	163,229	51,188	*17,253	8,747	77,188
1951	209,756	50,364	136,292	46,126	15,129	8,058	69,313
1952	221,403	70,482	120,708	42,533	14,703	10,756	67,992
1953	238,851	81,494	152,206	48,387	16,592	9,393	74,372
1954	256,967	115,030	163,985	56,151	17,024	9,252	82,427
1955	264,502	110,919	186,734	57,972	14,542	10,821	83,335
1956	295,793	128,829	201,500	*65,128	14,513	12,096	*91,737
1957	264,085	122,273	152,615	55,429	14,289	11,663	81,381
1958	248,140	130,177	165,210	55,610	11,361	12,912	79,883
1959	306,551	*165,359	187,334	59,061	9,325	13,830	82,216
1960	290,137	98,929	209,143	42,689	10,074	13,832	66,595
1961	311,265	112,254	258,118	51,781	9,362	13,426	74,569
1962	*312,259	124,649	250,075	53,209	8,557	13,911	75,677
1963	255,907	107,402	185,827	47,842	7,000	13,759	68,601
1964 3/	235,252	93,296	180,198	46,904	6,192	*16,551	69,647

1/ Includes homogenized condensed fish for 1950-63; no production in 1964. 2/ Record production, 1936 (299.3 million pounds). 3/ Preliminary. *Record.

MANUFACTURED FISHERY PRODUCTS

MANUFACTURING PLANTS

PLANTS PRODUCING CANNED AND INDUSTRIAL FISHERY PRODUCTS, 1964

Area and State	Canned fishery products	Industrial fishery products	Total plants, exclusive of duplication
	Number	Number	Number
New England:			
Maine	30	16	46
Massachusetts	5	5	10
Rhode Island	1	-	1
Connecticut	1	1	2
Total	37	22	59
Middle Atlantic:			
New York	10	4	14
New Jersey	13	12	25
Pennsylvania	8	2	10
Delaware	1	2	3
Total	32	20	52
Chesapeake:			
Maryland	5	8	12
Virginia	9	14	23
Total	14	22	35
South Atlantic and Gulf:			
North Carolina	6	15	19
South Carolina	3	-	3
Georgia	-	1	1
Florida	4	8	12
Alabama	1	1	2
Mississippi	13	4	17
Louisiana	22	9	30
Texas	2	3	5
Total	51	41	89
Great Lakes and Mississippi River:			
Illinois	2	1	3
Iowa	-	8	8
Kansas	1	-	1
Michigan	1	-	1
Nebraska	1	-	1
Ohio	2	-	2
Wisconsin	3	2	5
Total	10	11	21
Pacific Coast:			
Alaska	68	2	70
Washington	62	9	71
Oregon	18	5	21
California	23	23	34
Total	171	39	196
Hawaii	1	-	1
American Samoa	2	2	2
Puerto Rico	4	3	4
Grand Total	322	160	459

PURCHASES OF FRESH, FROZEN, AND CANNED FISHERY PRODUCTS, BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1950-64

Year	Fresh and frozen		Canned
	Thousand pounds	Thousand dollars	Thousand pounds
1950	17,884	7,399	(1)
1951	31,844	13,771	(1)
1952	32,276	15,050	(1)
1953	26,769	11,857	(1)
1954	25,290	10,395	(1)
1955	24,989	10,929	(1)
1956	26,610	13,413	(1)
1957	23,452	12,080	6,037
1958	22,511	12,850	9,473
1959	22,651	11,624	5,834
1960	22,917	11,839	7,350
1961	23,450	12,470	8,615
1962	23,356	14,388	9,024
1963	23,400	13,017	7,067
1964	26,341	15,040	8,777

1/ Data not available.
Note:--Armed Forces installations generally make some local purchases not included in the above data.
Source:--Commercial Fisheries Review, Fishery Market News Service.

PURCHASES OF PRINCIPAL FRESH AND FROZEN FISHERY PRODUCTS, BY DEFENSE SUBSISTENCE SUPPLY CENTERS, 1963-64

Product	1963	1964
	Thousand pounds	Thousand pounds
Shrimp:		
Raw headless	(1)	1,234
Peeled and deveined	(1)	1,664
Breaded	(1)	4,246
Molded and breaded	(1)	497
Total shrimp	7,095	7,641
Scallops	2,612	2,777
Oysters:		
Eastern	(1)	844
Pacific	(1)	342
Total oysters	1,217	1,186
Clams	274	280
Fillets:		
Cod	684	497
Flounder	2,957	3,062
Ocean perch	3,787	3,523
Haddock	2,087	1,898
Haddock portions	(1)	774
Steaks:		
Halibut	1,409	1,278
Salmon	244	261
Swordfish	34	17

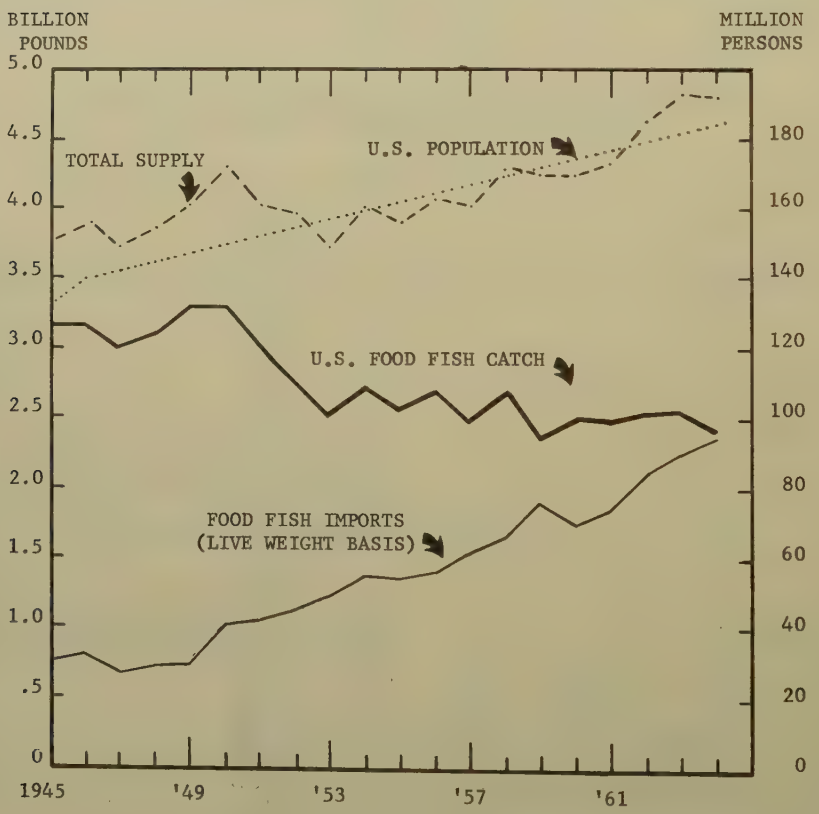
1/ Data not available.
Note:--Armed Forces installations generally make some local purchases not included in the above data. Source:--Commercial Fisheries Review, Fishery Market News Service.

VALUE AND PRICE INDEXES

ESTIMATED VALUE OF THE FISHERY INDUSTRY AT VARIOUS LEVELS, 1963-64

Level	1963			1964		
	Domestic fisheries	Imports	Total	Domestic fisheries	Imports	Total
	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars	Million dollars
Producer (fishermen). . . .	377	-	377	390	-	390
Imports (declared value). .	-	491	491	-	525	525
Processor	682	231	913	672	261	933
Wholesaler.	897	755	1,652	928	808	1,736
Retailer.	1,169	831	2,000	1,209	889	2,098

RELATIONSHIP OF U. S. POPULATION TO FOOD FISH CATCH AND IMPORTS, 1945-64



WHOLESALE AVERAGE PRICES AND INDEXES FOR EDIBLE FISH AND SHELLFISH, DECEMBER 1964 WITH COMPARISONS

Group, subgroup, and item specification	Point of pricing	Unit	Avg. Prices ($) 1/			Indexes (1957-59=100)		
			Dec. 1964	Dec. 1963	Dec. 1962	Dec. 1964	Dec. 1963	Dec. 1962
All fish & shellfish (fresh, frozen, and canned)						109.5	107.5	120.9
Fresh & frozen fishery products:						113.8	110.5	127.6
Drawn, dressed, or whole finfish:						111.2	114.4	133.1
Haddock, large, offshore, drawn, fresh	Boston	lb.	.13	.17	.18	99.5	133.0	143.8
Halibut, west., 20/80 lbs., dressed, fresh or frozen	New York	lb.	.40	.33	.43	118.3	96.1	127.1
Salmon, king, large & medium, dressed, fresh, or frozen	New York	lb.	.83	.85	.97	115.6	118.4	135.2
Whitefish, L. Superior, drawn, fresh	Chicago	lb.	.51	.41	.69	76.1	61.2	103.0
Yellow pike, L. Michigan & Huron, round, fresh	New York	lb.	.70	.51	.54	114.6	83.5	88.5
Processed, fresh (fish & shellfish):						111.9	111.5	128.5
Fillets, haddock, small, skins on, 20-lb. tins	Boston	lb.	.45	.57	.58	109.3	138.4	139.6
Shrimp, large (26-30 count), headless, fresh	New York	lb.	.90	.82	1.05	105.5	95.5	123.1
Oysters, shucked, standards	Norfolk	gal.	7.13	7.50	7.88	120.1	126.5	132.8
Processed, frozen (fish & shellfish):						112.8	101.3	116.4
Fillets: Flounder, skinless, 1-lb. package	Boston	lb.	.37	.39	.40	92.5	98.9	100.1
Haddock, small, skins on, 1-lb. package	Boston	lb.	.40	.40	.37	115.8	115.8	107.0
Ocean perch, large, skins on, 1-lb. package	Boston	lb.	.30	.35	.34	105.2	121.0	117.5
Shrimp, large (26-30 count), brown, 5-lb. package	Chicago	lb.	.96	.78	1.03	113.8	91.9	122.2
Canned fishery products:						102.2	102.5	109.4
Salmon, pink, No. 1 tall, (16 oz.), 48 cans/cs	Seattle	cs.	21.25	23.50	25.50	92.6	102.4	111.1
Tuna, light meat, chunk, No. 1/2 tuna (6-1/2 oz.), 48 cans/cs	Los Angeles	cs.	11.56	11.06	11.75	102.6	98.2	104.4
Mackerel, jack, California, No. 1 tall (15 oz.), 48 cans/cs	Los Angeles	cs.	6.25	5.75	4.50	105.9	97.5	2/ 100.0
Sardines, Maine, keyless oil, 1/4 drawn (3-3/4 oz.), 100 cans/cs	New York	cs.	10.00	8.96	9.31	128.3	114.9	119.4

1/ Represent average prices for one day (Monday or Tuesday) during the week in which the 15th of the month occurs. These prices are published as indicators of movement and not necessarily absolute level. Daily Market News Service "Fishery Products Reports" should be referred to for actual prices.

2/ New product replaced California canned sardines starting December 1962; entered wholesale price index at 100 under revised procedures of Bureau of Labor Statistics.

Source:--U. S. Department of Labor, Bureau of Labor Statistics.

FINANCIAL ASSISTANCE PROGRAMS

FISHERY LOAN PROGRAM

The Fish and Wildlife Act of 1956 authorized a fisheries loan program which was started in October 1956. The first loans were approved in late December of that year. Since that time through December 31, 1964, 1,582 applications for $41.6 million have been received. Of these, 828 ($18.6 million) have been approved. In 1964 a total of 139 loan applications for $2,919,350 were approved. These loans can be made only for the financing and refinancing of operations, maintenance, repairs, replacement, and equipment of fishing vessels and fishing gear, and for research into the basic problems of the fisheries in cases where the credit applied for is not available elsewhere on reasonable terms.

FISHING VESSEL MORTGAGE INSURANCE PROGRAM

The Fishing Vessel Mortgage Insurance Program provides for insurance by the Department of the Interior of mortgages to finance the construction, reconstruction, or reconditioning of fishing vessels. In 1964 a total of 52 mortgage insurance applications for $3,368,740 were approved.

FISHING VESSEL CONSTRUCTION-DIFFERENTIAL SUBSIDY PROGRAM

The Fishing Vessel Construction-Differential Subsidy Program, established by P. L. 88-516, was extended and expanded by passage of the United States Fishing Fleet Improvement Act in August of 1964. The new program extended the program until 1969, removed the requirement that the vessel be designed to operate in a fishery found to be suffering injury or threat of injury by reason of increased imports and added two other provisions.

The first was that the vessel be of advance design, which would enable it to operate in expanded areas, using newly developed gear, and that it would not operate in a fishery if such operations would cause economic hardship to efficient vessel operators already operating in that fishery. The second was a requirement that public hearings be held on each application before approval.

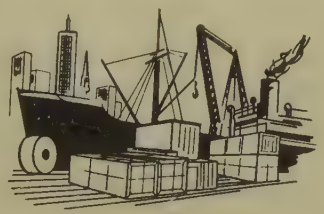
U. S. IMPORTS

IMPORTANT FISHERY IMPORTS, 1963-64

Item		1963	1964 1/	Record imports	
		Quantity	Quantity	Year	Quantity
Edible fishery products:					
Fresh and frozen:					
Fillets:					
Groundfish and ocean perch.	1,000 pounds	78,498	80,404	1964	246,569
Blocks or slabs	do	153,270	166,165		
Total	do	231,768	246,569	1964	246,569
Other	do	68,869	73,550	1962	76,443
Halibut (includes fillets)	do	27,539	28,136	1962	32,074
Salmon	do	8,898	8,818	1950	9,735
Tuna:					
Albacore	do	75,346	125,041	1964	125,041
Other	do	155,432	162,810	1962	188,525
Loins and discs	do	12,114	14,919	1964	14,919
Sea scallop (meats)	do	13,342	16,108	1964	16,108
Lobsters:					
Common (includes fresh-cooked meat)	do	21,847	20,458	1951	23,558
Spiny	do	34,048	35,023	1962	35,947
Shrimp (mostly frozen, some canned and dried)	do	151,530	154,577	1964	154,477
Canned:					
Salmon	do	1,250	220	1959	31,154
Sardines:					
In oil	do	19,908	20,033	1932	42,336
Not in oil	do	21,640	24,600	1953	34,271
Tuna:					
In oil	do	224	201	1950	36,410
In brine	do	57,270	54,404	1961	58,232
Bonito and yellowtail:					
In oil	do	3,480	3,050	1954	12,996
In brine	do	2,385	1,941	1957	3,905
Crab meat	do	5,296	4,508	1939	13,507
Lobsters:					
Common	do	2,362	2,817	1962	3,111
Spiny	do	281	201	1952	2,621
Oysters (mostly canned)	do	8,463	7,251	1963	8,463
Nonedible fishery products:					
Scrap and meal	tons	376,321	439,143	1964	439,143
Solubles	do	7,112	4,505	1959	26,630
Whale oil, sperm	1,000 pounds	67,325	58,814	1962	69,330

1/ Preliminary.
Note:--The data include imports into U. S. territories and possessions, but do not include landings of tuna by foreign vessels in American Samoa.

Source:--Department of Commerce, Bureau of the Census.



FOREIGN TRADE

U. S. IMPORTS

IMPORTS OF SHRIMP, VARIOUS YEARS, 1940-64

Country of Origin	1940	1950	1960	1963	1964 1/
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
North America:					
Mexico	4,913	39,653	73,583	76,512	72,122
Republic of Panama	-	143	8,423	10,258	12,122
El Salvador	-	-	6,697	6,667	6,296
Guatemala	-	-	257	1,943	2,207
Nicaragua	-	-	266	1,611	2,520
Costa Rica	-	-	461	1,508	1,976
Honduras	-	-	361	835	698
Canada	22	89	332	417	174
British Honduras	-	-	1	7	5
Canal Zone	-	148	-	312	125
Other	-	25	378	374	1,628
Total	4,935	40,058	90,759	100,444	99,873
South America:					
Venezuela	-	-	343	5,790	7,904
Ecuador	-	-	4,192	5,631	5,759
British Guiana	-	-	3,568	5,509	5,502
French Guiana	-	-	-	2,789	2,961
Colombia	-	-	2,174	1,870	1,774
Surinam	-	-	381	1,205	1,323
Chile	-	-	739	348	195
Peru	-	-	256	367	308
Brazil	-	-	43	8	34
Argentina	-	-	64	-	-
Total	-	-	11,760	23,517	25,760
Europe:					
Spain	-	-	225	442	536
Denmark	(1)	-	81	61	67
Norway	2	69	110	59	55
Iceland	-	(2)	92	-	2
United Kingdom	-	(2)	1	(2)	38
Italy	-	3	-	-	-
Other	22	5	8	52	81
Total	24	77	517	614	779
Asia:					
India	-	-	2,892	9,951	10,232
Japan	55	58	2,947	4,084	2,891
Pakistan	-	-	1,018	3,685	4,812
Republic of Korea	-	-	93	2,151	1,294
Iran	-	-	1,226	87	682
Hong Kong	4	-	3	334	27
Thailand	-	-	40	888	573
Other	6	5	340	4,312	6,131
Total	65	63	8,559	25,492	26,642
Australia and Oceania	-	(2)	155	365	133
Africa	-	-	1,668	1,098	1,390
Grand total	5,024	40,198	113,418	151,530	154,577

1/ Preliminary.
2/ Less than 500 pounds.

U. S. IMPORTS

IMPORTS OF SHRIMP BY PRODUCT TYPES, 1963-64

Item	1963 1/			Total, 1964 2/
	January-August	September-December	Total	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Shell-on (headless)	62,703	49,014	111,717	112,149
Canned	2,816	1,304	4,120	3,004
Peeled, raw	20,281	9,179	29,460	27,385
Peeled, cooked	1,740	807	2,547	2,585
Breaded	357	127	484	404
Cured (dried)	191	88	279	509
Other	1,998	925	2,923	8,541
Total	90,086	61,444	151,530	154,577

1/ Imports of peeled, cooked, canned, and dried shrimp for the January-August period were computed on the basis of quantities reported for the September-December period.
2/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH MEAL AND SCRAP BY COUNTRY OF ORIGIN, VARIOUS YEARS, 1950-64

Country of origin	1950	1960	1961	1962	1963	1964 1/
	Tons	Tons	Tons	Tons	Tons	Tons
Angola	6,503	888	1,543	-	691	1,944
Canada	42,499	30,982	38,218	42,806	50,985	54,769
Chile	377	21,183	12,074	9,247	23,567	12,942
Peru	3,917	68,156	151,439	186,249	285,414	348,025
Republic of South Africa	825	7,073	13,026	10,084	12,296	18,581
Other countries	9,734	3,279	1,545	3,921	3,368	2,882
Total	63,855	131,561	217,845	252,307	376,321	439,143

1/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

IMPORTS OF FISH SOLUBLES BY COUNTRY OF ORIGIN, VARIOUS YEARS, 1958-64

Country of origin	1958	1960	1961	1962	1963	1964 1/
	Tons	Tons	Tons	Tons	Tons	Tons
Canada	2,699	869	1,001	1,335	2,235	1,553
Denmark	9,943	1,858	28	110	-	-
Iceland	738	-	3,393	2,332	160	-
Republic of South Africa	1,063	402	1,416	1,717	511	987
Other countries	124	45	901	814	4,206	1,965
Total	14,567	3,174	6,739	6,308	7,112	4,505

1/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

U. S. IMPORTS

QUOTA AND IMPORTS OF CANNED TUNA, 1956-65

Year	Quota 1/	Imports		
		In brine		In oil
		Under Quota 2/	Over Quota 3/	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1956 4/	28,757	27,783	-	586
1957	44,529	42,524	-	1,068
1958	44,694	44,694	752	758
1959	52,373	52,373	2,931	830
1960	53,448	50,322	-	596
1961	57,115	56,210	-	431
1962	59,059	54,379	-	358
1963	63,131	56,414	-	224
1964	60,912	5/ 52,931	-	201
1965	5/ 66,059	-	-	-

1/ Twenty percent of previous year's domestic pack excluding American Samoa.

2/ Dutiable at 12½ percent ad valorem.

3/ Dutiable at 25 percent ad valorem.

4/ From close of business on April 14 through December 31, 1956.

5/ Preliminary.

Source:--Department of Commerce, Bureau of Customs - Quota and imports in brine. (Bureau of Customs data on imports in brine will not agree with Bureau of the Census data appearing in other tables in this report).
Bureau of the Census - Imports in oil.

IMPORTS OF FISHERY PRODUCTS, 1950-64

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1950	639,725	158,414	39,882	198,296
1951	646,668	158,363	54,094	212,457
1952	705,118	183,121	57,308	240,429
1953	726,195	195,869	49,611	245,480
1954	803,389	203,645	48,687	252,332
1955	771,012	208,051	49,896	257,947
1956	787,866	233,166	48,031	281,197
1957	884,024	250,956	46,487	297,443
1958	991,479	280,212	46,959	327,171
1959	1,113,624	311,033	55,467	366,500
1960	1,067,460	307,380	52,685	360,065
1961	1,061,662	335,757	61,301	397,058
1962	*1,222,836	*400,882	74,366	475,248
1963	1,160,398	394,546	*96,162	*490,708
1964	(1)	(1)	(1)	(1)

1/ Not available.

* Record.

Source:--Department of Commerce, Bureau of the Census.

U. S. IMPORTS

VALUE OF U.S. IMPORTS OF FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1963

Continent and country of origin	Thousand dollars	Percent
North America:		
Canada	118,040	24.06
Mexico	59,906	12.21
Republic of Panama	7,076	1.44
Other	15,176	3.09
Total	200,198	40.80
South America:		
Ecuador	5,788	1.18
Peru	35,038	7.14
Chile	6,046	1.23
Brazil	6,198	1.26
Other	15,054	3.07
Total	68,124	13.88
Europe:		
Iceland	15,006	3.06
Norway	16,778	3.42
Denmark	5,412	1.10
Portugal	5,533	1.13
Other	22,912	4.67
Total	65,641	13.38
Asia:		
India	8,353	1.70
Japan	95,357	19.43
Other	13,140	2.68
Total	116,850	23.81
Australia and Oceania:		
Australia	12,520	2.55
Other	4,461	.91
Total	16,981	3.46
Africa:		
Republic of South Africa	17,270	3.52
Other	5,644	1.15
Total	22,914	4.67
Grand total	490,708	100.00

Source:--Department of Commerce, Bureau of Census.

U. S. IMPORTS

U.S. IMPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF ORIGIN, 1963

Continent and country of origin	Thousand pounds	Percent
North America:		
Canada	408,305	35.19
Mexico	100,142	8.63
Trinidad and Tobago	17,563	1.51
Republic of Panama	10,380	.90
El Salvador	6,694	.58
Other	19,869	1.71
Total	562,953	48.52
South America:		
Peru	57,670	4.97
Equador	11,920	1.03
Venezuela	6,584	.57
British Guiana	5,511	.47
Brazil	4,006	.34
Other	8,423	.73
Total	94,114	8.11
Europe:		
Iceland	60,852	5.24
Norway	50,779	4.38
Denmark	18,778	1.62
Portugal	11,273	.97
Spain	11,169	.96
West Germany	5,836	.50
United Kingdom	4,648	.40
Other	10,974	.95
Total	174,309	15.02
Asia:		
Japan	220,852	19.03
India	11,094	.95
Taiwan	9,488	.82
Other	15,504	1.34
Total	256,938	22.14
Australia and Oceania:		
Australia	8,812	.76
British Western Pacific Island	6,210	.54
New Zealand	3,026	.26
Other	417	.03
Total	18,465	1.59
Africa:		
Republic of South Africa	28,461	2.45
Western Africa	7,979	.69
British West Africa	7,728	.67
Canary Islands	5,239	.45
Other	4,212	.36
Total	53,619	4.62
Grand total	1,160,398	100.00

Source:--Department of Commerce, Bureau of Census.

U. S. IMPORTS

U. S. IMPORTS OF FISHERY PRODUCTS, BY COUNTRY OF ORIGIN, 1963
(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
North America:				
Greenland	8,618	1,859	255	2,114
Canada	408,305	109,822	8,218	118,040
Miquelon and St. Pierre Islands	1,415	349	46	395
Mexico	100,142	59,419	487	59,906
Guatemala	1,953	1,067	24	1,091
British Honduras	494	379	43	422
El Salvador	6,694	4,301	2	4,303
Honduras	965	533	27	560
Nicaragua	2,230	1,412	14	1,426
Costa Rica	1,699	961	4	965
Republic of Panama	10,380	7,073	3	7,076
Canal Zone	407	253	-	253
Bahamas	1,440	779	32	811
Jamaica	211	76	12	88
Haiti	55	83	6	89
Dominican Republic	26	24	-	24
Leeward and Windward Islands	2	1	-	1
Barbados	245	173	-	173
Trinidad and Tobago	17,563	2,403	10	2,413
Netherlands Antilles	109	47	1	48
Total	562,953	191,014	9,184	200,198
South America:				
Colombia	1,877	1,277	807	2,084
Venezuela	6,584	3,543	141	3,684
British Guiana	5,511	4,668	94	4,762
Surinam	1,206	1,154	(1)	1,154
French Guiana	2,789	1,952	3	1,955
Ecuador	11,920	5,753	35	5,788
Peru	57,670	6,473	28,565	35,038
Bolivia	-	-	(1)	(1)
Chile	1,994	1,224	4,822	6,046
Brazil	4,006	3,834	2,364	6,198
Paraguay	-	-	55	55
Uruguay	11	3	42	45
Argentina	546	124	1,191	1,315
Total	94,114	30,005	38,119	68,124
Europe:				
Iceland	60,852	14,659	347	15,006
Sweden	1,998	449	169	618
Norway	50,779	15,120	1,658	16,778
Denmark	18,778	4,899	513	5,412
United Kingdom	4,648	1,621	2,957	4,578
Ireland	204	38	15	53
Netherlands	3,446	1,090	2,370	3,460
Belgium and Luxembourg	130	58	315	373
France	3,090	647	2,077	2,724
West Germany	5,836	2,265	1,913	4,178
Austria	9	2	365	367
Czechoslovakia	-	-	9	9
Hungary	13	3	-	3
Switzerland	-	-	363	363
Spain	11,169	2,866	319	3,185

See footnote at end of table (Continued on next page)

U. S. IMPORTS OF FISHERY PRODUCTS, BY COUNTRY OF ORIGIN, 1963 - Continued

(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Europe - Continued:				
Finland	3	(1)	(1)	(1)
Poland and Danzig	45	14	-	14
Union of Soviet Socialist Republics	58	156	6	162
Azores	1,192	345	17	362
Portugal	11,273	5,344	189	5,533
Italy	497	321	1,265	1,586
Yugoslavia	249	131	20	151
Free Territory of Trieste	14	4	-	4
Greece	9	3	680	683
Bulgaria	-	-	1	1
Turkey	17	25	1	26
Cyprus	-	-	12	12
Total	174,309	50,060	15,581	65,641
Asia:				
Syrian Arab Republic	1	1	15	16
Lebanon	-	-	71	71
Iran	1,250	1,004	11	1,015
Israel	-	-	166	166
Jordan	-	-	2	2
Arabia Peninsula States:				
Kuwait	3,728	2,756	-	2,756
Saudi Arabia	110	58	-	58
Arabia Peninsula States	30	11	6	17
Aden	-	-	30	30
India	11,094	7,449	904	8,353
Pakistan	1,793	2,331	44	2,375
Burma	-	-	2	2
Thailand	1,195	995	12	1,007
Ceylon	-	-	(1)	(1)
Viet-Nam	74	66	2	68
Cambodia	-	-	1	1
Federation of Malaya	2,497	435	65	500
Laos	-	-	(1)	(1)
State of Singapore	150	93	3	96
Republic of Indonesia	87	13	12	25
Republic of the Philippines	226	126	498	624
Republic of Korea	2,695	1,267	78	1,345
Hong Kong	1,432	1,331	634	1,965
Taiwan	9,488	927	37	964
Japan	220,852	67,551	27,806	95,357
Nansei and Nanpo Islands	236	36	1	37
Total	256,938	86,450	30,400	116,850
Australia and Oceania:				
Australia	8,812	12,235	285	12,520
New Zealand	3,026	3,412	19	3,431
French Pacific Islands	417	64	22	86
Trust Territory of the Pacific Islands	-	-	1	1
British Western Pacific Islands	6,210	942	1	943
Total	18,465	16,653	328	16,981

See footnote at end of table.

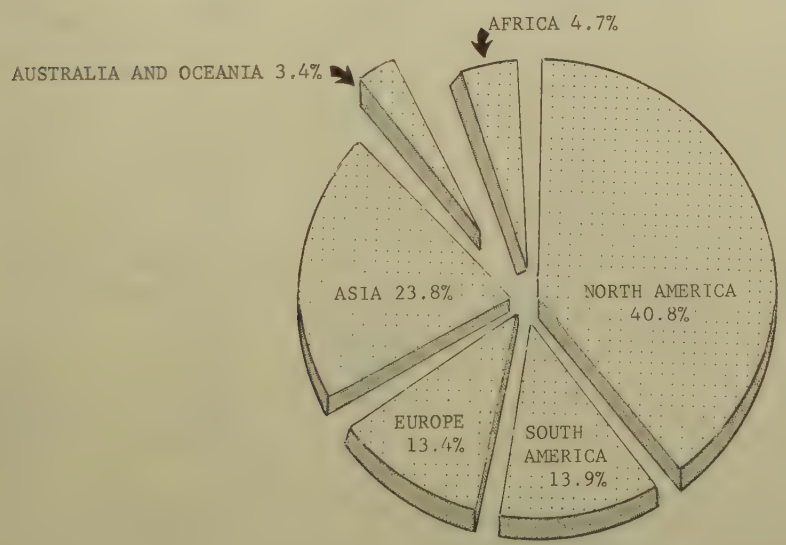
(Continued on next page)

U. S. IMPORTS OF FISHERY PRODUCTS, BY COUNTRY OF ORIGIN, 1963 - Continued
(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Africa:				
Morocco	650	243	557	800
Seychelles and Dependencies	1	1	-	1
Tunisia	1	1	5	6
United Arab Republic (Egypt)	999	653	3	656
Western Portuguese Africa	622	158	-	158
Canary Islands	5,239	756	-	756
Spanish Africa	52	27	-	27
Western Africa	7,979	1,284	(1)	1,284
Ghana	57	16	1	17
Federation of Nigeria	46	36	187	223
Madeira Islands	-	-	1	1
Angola	1,689	562	61	623
British West Africa and Sierra Leone	7,728	934	-	934
Ethiopia	-	-	2	2
British East Africa and Tanganyika	14	14	60	74
Mozambique	81	77	5	82
Republic of South Africa	28,461	15,602	1,668	17,270
The Federation of Rhodesia and Nyasaland	-	-	(1)	(1)
Total	53,619	20,364	2,550	22,914
Grand Total	1,160,398	394,546	96,162	490,708

1/ Less than 500 pounds or $500.
Source:--Department of Commerce, Bureau of the Census.

VALUE OF U. S. IMPORTS FROM CONTINENT OF ORIGIN, 1963



TOTAL VALUE $490,708,000

FOREIGN TRADE

U. S. EXPORTS

IMPORTANT DOMESTIC FISHERY EXPORTS, 1963-64

Item	1963	1964 1/	Record exports	
	Thousand pounds	Thousand pounds	Year	Thousand pounds
Fresh and frozen salmon	4,888	20,523	1964	20,523
Canned:				
Mackerel	4,940	8,588	1957	17,044
Salmon	10,228	20,926	1943	69,846
Sardines:				
In oil	146	839	1943	137,203
Not in oil	3,493	2,426		
Shrimp	3,199	3,692	1964	3,692
Squid	8,048	7,005	1959	9,156
Fish oils, unclassified	262,342	151,469	1963	262,342

1/ Preliminary.

Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISHERY PRODUCTS, VARIOUS YEARS, 1940-64

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1940	144,804	17,115	670	17,785
1945	135,979	30,855	7,655	38,510
1950	121,623	18,856	8,618	27,474
1951	165,624	27,072	8,659	35,731
1952	62,056	15,511	6,436	21,947
1953	69,308	17,084	10,794	27,878
1954	62,724	16,238	15,289	31,527
1955	109,750	24,923	15,054	39,977
1956	101,918	22,939	16,564	39,503
1957	85,221	20,549	15,403	35,952
1958	65,468	19,440	11,564	31,004
1959	80,688	26,747	17,495	44,242
1960	61,454	25,622	18,543	44,165
1961	40,137	19,594	15,116	34,710
1962	56,530	22,470	13,258	35,728
1963	64,745	30,376	26,229	56,605
1964 1/	92,749	42,914	21,326	64,240

1/ Preliminary.

Source:--Department of Commerce, Bureau of the Census.

U. S. EXPORTS

EXPORTS OF DOMESTIC AND FOREIGN SHRIMP PRODUCTS, 1960-64

Item	1960	1961	1962	1963	1964 1/
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Fresh and frozen:					
Domestic	2,989	4,771	3,457	8,078	7,852
Foreign	809	4,742	1,992	5,733	7,254
Total	3,798	9,513	5,449	13,811	15,106
Canned:					
Domestic	3,482	2,503	2,212	3,199	3,692
Foreign	34	25	44	33	25
Total	3,516	2,528	2,256	3,232	3,717
Cured:					
Domestic	108	103	72	80	157
Foreign	5	336	101	2	6
Total	113	439	173	82	163
Total:					
Domestic	6,579	7,377	5,741	11,357	11,701
Foreign	848	5,103	2,137	5,768	7,285
Grand total	7,427	12,480	7,878	17,125	18,986

1/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC FISH AND FISH LIVER OILS, 1960-64

Country of destination	1960	1961	1962	1963	1964 1/
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Belgium	685	1,354	3,329	33	-
Canada	9,846	16,935	10,555	8,177	481
Denmark	20	-	-	-	4,586
Netherlands	53,133	25,587	34,054	25,847	31,452
Norway	15,914	31,277	10,020	23,744	11,499
Sweden	36,026	20,641	13,446	73,559	70,948
United Kingdom	1,136	8,908	32,975	86,709	89
West Germany	26,083	15,591	16,920	39,456	25,832
Other countries	816	2,193	1,751	4,817	6,582
Total	143,659	122,486	123,050	262,342	151,469

1/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

EXPORTS OF DOMESTIC SARDINES, 1960-64

Country of destination	1960	1961	1962	1963	1964 1/
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
Belgium	316	142	-	-	120
Canada	-	131	292	-	62
Cuba	704	-	-	-	-
Ecuador	1,623	436	220	20	193
Ghana	220	36	1,141	46	-
Greece	3	-	-	23	-
Hong Kong	387	190	90	20	70
Federation of Malaya	95	370	234	-	-
New Zealand	1,420	188	61	-	-
Philippines	12,446	1,974	21	13	298
Republic of the Congo	-	-	1,944	465	-
United Kingdom	31	-	-	30	-
Other countries	3,974	4,193	3,763	3,022	2,522
Total	21,219	7,660	7,766	3,639	3,265

1/ Preliminary.
Source:--Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U.S. EXPORTS

VALUE OF U.S. EXPORTS OF FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1963

Continent and country of destination	Thousand dollars	Percent
North America:		
Canada	11,156	19.71
Other	2,086	3.68
Total	13,242	23.39
South America:		
Venezuela	183	.32
Other	179	.32
Total	362	.64
Europe:		
United Kingdom	13,081	23.11
Sweden	4,473	7.90
West Germany	3,638	6.43
Netherlands	2,593	4.58
Switzerland	2,228	3.93
France	1,889	3.34
Italy	1,643	2.90
Norway	1,539	2.72
Other	1,766	3.12
Total	32,850	58.03
Asia:		
Japan	7,820	13.82
Republic of the Philippines	404	.71
Hong Kong	388	.69
Other	397	.70
Total	9,009	15.92
Australia and Oceania:		
New Zealand	230	.41
Australia	204	.36
Other	239	.42
Total	673	1.19
Africa:		
Republic of the Congo	208	.37
Republic of South Africa	80	.14
Other	181	.32
Total	469	.83
Grand total	56,605	100.00

Source:--Department of Commerce. Bureau of the Census.

U. S. EXPORTS

U.S. EXPORTS OF EDIBLE FISHERY PRODUCTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1963

Continent and country of destination	Thousand pounds	Percent
North America:		
Canada	18,315	28.29
El Salvador	1,299	2.01
Jamaica	815	1.26
Costa Rica	700	1.08
Nicaragua	651	1.01
Guatemala	502	.77
Other	2,008	3.10
Total	24,290	37.52
South America:		
Venezuela	261	.40
Surinam	122	.19
Other	121	.19
Total	504	.78
Europe:		
United Kingdom	9,558	14.76
Greece	5,488	8.48
Italy	3,816	5.89
France	2,398	3.70
Netherlands	909	1.40
West Germany	566	.88
Spain	563	.87
Other	1,396	2.16
Total	24,694	38.14
Asia:		
Japan	6,040	9.33
Republic of the Philippines	2,943	4.55
Hong Kong	706	1.09
Other	585	.90
Total	10,274	15.87
Australia and Oceania:		
New Zealand	1,512	2.33
British Western Pacific Islands	1,049	1.62
French Pacific Islands	519	.80
Other	433	.67
Total	3,513	5.42
Africa:		
Republic of the Congo	1,019	1.57
Other	451	.70
Total	1,470	2.27
Grand total	64,745	100.00

Source:--Department of Commerce, Bureau of the Census.

FOREIGN TRADE

U. S. EXPORTS

U. S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1963
(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
North America:				
Canada	18,315	7,694	3,462	11,156
Mexico	232	112	151	263
Guatemala	502	126	3	129
British Honduras	1	1	(1)	1
El Salvador	1,299	272	(1)	272
Honduras	130	30	-	30
Nicaragua	651	125	1	126
Costa Rica	700	143	1	144
Republic of Panama	239	87	(1)	87
Canal Zone	43	19	4	23
Bermuda	251	149	16	165
Bahamas	284	138	7	145
Jamaica	815	254	10	264
Haiti	33	1	(1)	1
Dominican Republic	256	85	20	105
Leeward and Windward Islands	41	15	(1)	15
Barbados	11	6	(1)	6
Trinidad and Tobago	61	52	20	72
Netherlands Antilles	421	237	1	238
French West Indies	5	-	-	-
Total	24,290	9,546	3,696	13,242
South America:				
Colombia	31	12	16	28
Venezuela	261	164	19	183
British Guiana	13	8	-	8
Surinam	122	34	5	39
Ecuador	21	(1)	1	1
Peru	26	23	2	25
Bolivia	21	14	-	14
Chile	2	4	2	6
Brazil	3	2	23	25
Paraguay	1	1	-	1
Uruguay	-	-	2	2
Argentina	3	3	27	30
Total	504	265	97	362
Europe:				
Iceland	1	1	-	1
Sweden	294	270	4,203	4,473
Norway	17	24	1,515	1,539
Denmark	353	343	32	375
United Kingdom	9,558	7,697	5,384	13,081
Ireland	7	4	3	7
Netherlands	909	554	2,039	2,593
Belgium and Luxembourg	445	342	103	445
France	2,398	1,436	453	1,889
West Germany	566	405	3,233	3,638
East Germany	-	-	1	1

See footnote at end of table. (Continued on next page)

U. S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1963 - Continued

(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Europe - Continued:				
Austria	1	1	12	13
Czechoslovakia	-	-	103	103
Switzerland	240	217	2,011	2,228
Spain	563	168	10	178
Union of Soviet Socialist Republics	-	-	3	3
Azores	2	1	-	1
Portugal	12	2	62	64
Malta and Gozo	14	2	-	2
Gibraltar	5	4	-	4
Italy	3,816	642	1,001	1,643
Greece	5,488	555	11	566
Turkey	-	-	2	2
Cyprus	5	1	-	1
Total	24,694	12,669	20,181	32,850
Asia:				
Lebanon	27	25	3	28
Iraq	1	3	-	3
Iran	28	17	5	22
Israel	6	5	1	6
Jordan	(1)	2	3	5
Arabia Peninsula States:				
Kuwait	5	3	-	3
Saudi Arabia	26	24	-	24
Arabia Peninsula States	2	2	-	2
Aden	1	1	-	1
State of Bahrain	5	5	-	5
Afghanistan	2	2	-	2
India	1	(1)	(1)	(1)
Pakistan	7	3	-	3
Burma	(1)	(1)	1	1
Thailand	50	16	5	21
Ceylon	3	2	-	2
Viet-Nam	23	14	-	14
Federation of Malaya	83	45	1	46
Laos	10	6	-	6
State of Singapore	269	167	-	167
Republic of Indonesia	5	5	-	5
Republic of the Philippines	2,943	393	11	404
Republic of Korea	-	-	5	5
Hong Kong	706	380	8	388
Japan	6,040	5,689	2,131	7,820
Nansei and Nanpo Islands	31	26	-	26
Total	10,274	6,835	2,174	9,009
Australia and Oceania:				
Australia	352	170	34	204
New Zealand and Western Samoa	1,512	216	14	230
New Guinea	5	5	-	5
French Pacific Islands	519	99	-	99
Trust Territory of the Pacific Islands	76	19	-	19
British Western Pacific Islands	1,049	116	-	116
Total	3,513	625	48	673

See footnote at end of table.

(Continued on next page)

FOREIGN TRADE

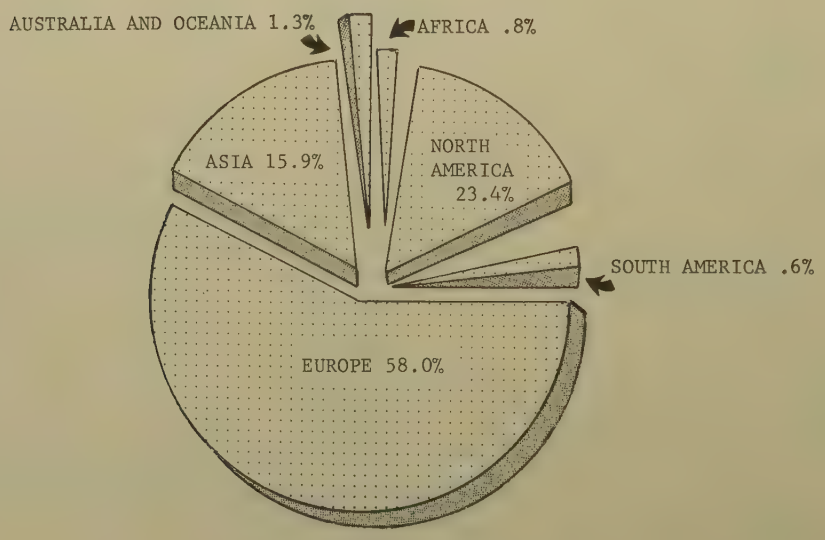
U. S. EXPORTS

U. S. EXPORTS OF DOMESTIC FISHERY PRODUCTS, BY COUNTRY OF DESTINATION, 1963 - Continued
(Thousands of pounds and thousands of dollars)

Country	Edible		Nonedible	Total
	Quantity	Value	Value	Value
Africa:				
Morocco	1	1	-	1
Libya	10	10	(1)	10
United Arab Republic (Egypt)	7	2	3	5
Canary Islands	12	10	-	10
Western Equatorial Africa	16	6	-	6
Western Africa	2	2	-	2
Guinea	75	18	1	19
Federation of Nigeria	2	1	9	10
Angola	(1)	(1)	-	(1)
British West Africa and Sierra Leone	1	1	(1)	1
Liberia	161	53	-	53
Republic of the Congo	1,019	207	1	208
Somali Republic	1	1	1	2
French Somaliland	9	1	-	1
Ethiopia	(1)	1	-	1
British East Africa and Tanganyika	5	2	-	2
Mozambique	(1)	(1)	-	(1)
Malagasy Republic (formerly Madagascar)	4	5	-	5
Republic of South Africa	63	62	18	80
The Federation of Rhodesia and Nyasaland	82	53	-	53
Total	1,470	436	33	469
Grand Total	64,745	30,376	26,229	56,605

1/ Less than 500 pounds or $500.
Source: -- Department of Commerce, Bureau of the Census.

VALUE OF U. S. EXPORTS TO CONTINENT OF DESTINATION, 1963



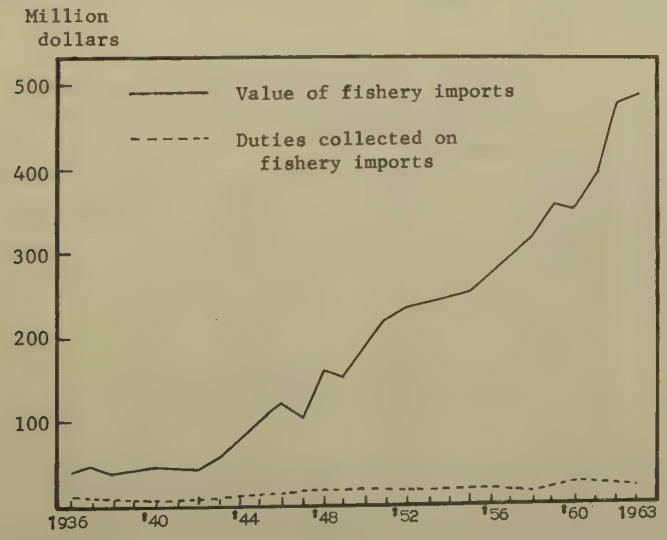
TOTAL VALUE $56,605,000

U. S. CUSTOMS DUTIES

IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1936-63

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	Thousand dollars	Thousand dollars	Thousand dollars	Thousand dollars	Percent	Percent
1936. . . .	41,873	2,423,977	6,545	400,558	15.6	16.5
1937. . . .	50,636	3,009,852	8,254	465,253	16.3	15.5
1938. . . .	39,307	1,949,624	5,701	293,070	14.5	15.0
1939. . . .	45,999	2,276,099	6,015	316,372	13.1	13.9
1940. . . .	41,830	2,540,656	4,772	305,609	11.4	12.0
1941. . . .	40,981	3,221,954	3,888	413,846	9.5	12.8
1942. . . .	39,568	2,780,317	2,714	323,409	6.9	11.6
1943. . . .	67,183	3,390,101	3,523	395,030	5.2	11.7
1944. . . .	78,418	3,887,490	4,386	382,109	5.6	9.8
1945. . . .	101,254	4,098,101	6,979	391,476	6.9	9.6
1946. . . .	129,713	4,824,902	8,047	498,001	6.2	10.3
1947. . . .	109,975	5,666,321	6,895	445,355	6.3	7.9
1948. . . .	156,648	7,092,032	8,694	417,401	5.6	5.9
1949. . . .	151,614	6,591,640	7,560	374,291	5.0	5.7
1950. . . .	198,296	8,743,082	12,484	529,621	6.3	6.1
1951. . . .	212,457	10,817,341	10,346	603,468	4.9	5.6
1952. . . .	240,429	10,747,497	11,982	574,733	5.0	5.3
1953. . . .	245,480	10,778,905	14,026	597,760	5.7	5.5
1954. . . .	252,332	10,239,517	14,405	556,936	5.7	5.4
1955. . . .	257,947	11,336,787	14,530	669,579	5.6	5.9
1956. . . .	281,197	12,515,747	15,504	739,228	5.5	5.9
1957. . . .	297,443	12,950,606	15,955	776,884	5.4	6.0
1958. . . .	327,171	12,739,429	16,645	832,155	5.1	6.5
1959. . . .	366,500	14,993,594	17,737	1,066,536	4.8	7.1
1960. . . .	360,065	14,650,000	15,857	1,084,000	4.4	7.4
1961. . . .	397,058	14,657,000	16,904	1,057,000	4.3	7.2
1962. . . .	484,857	16,241,000	17,910	1,220,000	3.7	7.5
1963. . . .	490,708	17,014,000	17,660	1,236,000	3.6	7.3

VALUE OF FISHERY IMPORTS AND DUTIES COLLECTED, 1936 - 63



SUPPLIES OF CERTAIN FISHERY PRODUCTS

SUPPLY OF FISHERY PRODUCTS, 1954-64

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1954	4,762	62.7	2,831	37.3	7,593
1955	4,809	67.5	2,312	32.5	7,121
1956	5,268	69.6	2,301	30.4	7,569
1957	4,789	66.8	2,375	33.2	7,164
1958	4,747	63.1	2,779	36.9	7,526
1959	5,122	60.5	3,338	39.5	8,460
1960	4,942	60.1	3,281	39.9	8,223
1961	5,187	54.2	4,383	45.8	9,570
1962	*5,354	51.4	5,054	48.6	10,408
1963	4,847	42.3	6,612	57.7	11,459
1964 2/	4,523	37.6	*7,509	62.4	*12,032

1/ Excludes imports of cured cod into Puerto Rico, but includes landings of foreign caught tuna in American Samoa. 2/ Preliminary. *Record.

SUPPLY OF EDIBLE FISHERY PRODUCTS, 1954-64

(Round weight basis)

Year	Domestic catch		Imports 1/		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1954	2,705	66.4	1,371	33.6	4,076
1955	2,579	65.9	1,332	34.1	3,911
1956	2,690	65.8	1,401	34.2	4,091
1957	2,475	61.4	1,557	38.6	4,032
1958	2,651	61.5	1,663	38.5	4,314
1959	2,369	55.5	1,901	44.5	4,270
1960	2,498	58.6	1,766	41.4	4,264
1961	2,490	57.4	1,845	42.6	4,335
1962	2,540	54.6	2,115	45.4	4,655
1963	2,556	52.9	2,272	47.1	4,828
1964 2/	2,461	50.7	*2,395	49.3	*4,856

1/ Excludes imports of cured cod into Puerto Rico, but includes landings of foreign caught tuna in American Samoa. 2/ Preliminary. *Record (The record domestic catch of edible fishery products amounting to 3,307 million pounds was landed in 1950).

SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1954-64

(Round weight basis)

Year	Domestic catch		Imports		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1954	2,057	58.5	1,460	41.5	3,517
1955	2,230	69.5	980	30.5	3,210
1956	2,578	74.1	900	25.9	3,478
1957	2,314	73.9	818	26.1	3,132
1958	2,096	65.3	1,116	34.7	3,212
1959	2,753	65.7	1,437	34.3	4,190
1960	2,444	61.7	1,515	38.3	3,959
1961	2,697	51.5	2,538	48.5	5,235
1962	*2,814	48.9	2,939	51.1	5,753
1963	2,291	34.5	4,340	65.5	6,631
1964	2,062	28.7	*5,114	71.3	*7,176

1/ Preliminary. *Record.

Note:--The weights of the domestic catch and imports represent the live (round) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in the weight of meats, excluding the shell.

SUPPLY OF GROUNDFISH AND ATLANTIC OCEAN PERCH FILLETS, 1953-64

Year	U.S. production 1/		Imports 2/		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1953	112,280	55.6	89,706	44.4	201,986
1954	122,391	47.1	137,548	52.9	259,939
1955	105,157	45.0	128,312	55.0	233,469
1956	107,138	44.2	135,295	55.8	242,433
1957	96,650	40.7	140,678	59.3	237,328
1958	99,074	40.3	146,589	59.7	245,663
1959	91,133	33.0	184,837	67.0	275,970
1960	93,818	37.6	155,550	62.4	249,368
1961	93,039	32.3	195,099	67.7	288,138
1962	93,625	29.7	221,420	70.3	315,045
1963	83,419	26.5	231,768	73.5	315,187
1964 3/	75,166	23.4	*246,569	76.6	*321,735

1/ Record production, 1951 (148,786,000 pounds). 2/ Includes imports of frozen blocks of groundfish. 3/ Preliminary. * Record.

SUPPLY OF FILLETS, STEAKS, ETC., OTHER THAN GROUNDFISH AND ATLANTIC OCEAN PERCH, 1953-64

Year	U.S. production		Imports		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1953	48,132	48.4	51,344	51.6	99,476
1954	51,251	51.6	47,911	48.4	99,162
1955	51,922	48.4	55,223	51.6	107,145
1956	55,661	48.0	60,274	52.0	115,935
1957	57,815	47.7	63,300	52.3	121,115
1958	56,801	47.5	62,688	52.5	119,489
1959	56,104	46.4	64,802	53.6	120,906
1960	59,348	49.0	61,713	51.0	121,061
1961	65,073	49.2	67,167	50.8	132,240
1962	76,361	50.0	*76,443	50.0	152,804
1963	*82,565	54.5	68,869	45.5	151,434
1964 1/	79,268	51.9	73,550	48.1	*152,818

1/ Preliminary. * Record.

SUPPLY OF CANNED SALMON, 1953-64

Year	U. S. pack 1/	Percent of total supply	Imports	Percent of total supply	Total supply	Exports	Total available for U. S. consumption
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds
1953	187,769	93.9	12,165	6.1	199,934	2,277	197,657
1954	199,810	94.6	11,371	5.4	211,181	7,227	203,954
1955	157,855	91.4	14,644	8.6	172,499	10,429	162,070
1956	168,250	85.4	28,802	14.6	197,052	5,213	191,839
1957	153,917	86.3	24,401	13.7	178,318	6,688	171,630
1958	179,134	86 0	29,226	14.0	208,360	9,227	199,133
1959	118,330	79.2	31,154	20.8	149,484	13,826	135,658
1960	136,049	87.7	19,113	12.3	155,162	11,924	143,238
1961	177,443	96.1	7,167	3.9	184,610	7,186	177,424
1962	182,435	96.4	6,843	3.6	189,278	8,978	180,300
1963	158,153	99.2	1,250	.8	159,403	10,228	149,175
1964 2/	179,775	99.9	220	.1	179,995	20,926	159,069

1/ Record pack, 1936 (430,328,496 pounds). 2/ Preliminary.

SUPPLY OF CANNED TUNA, VARIOUS YEARS, 1940-64

(Canned weight)

Year	U.S. pack from domestic catch 1/		U.S. pack from imported fresh and frozen tuna 2/		Total	Imported canned		Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1940. . . .	80,389	89.8	1,455	1.6	81,844	3/ 7,678	8.6	89,522
1947. . . .	107,446	93.7	1,060	.9	108,506	3/ 6,148	5.4	114,654
1948. . . .	129,554	92.2	2,603	1.9	132,157	3/ 8,302	5.9	140,459
1949. . . .	134,032	93.6	4,613	3.2	138,645	4,584	3.2	143,229
1950. . . .	152,693	72.6	20,769	9.9	173,462	36,791	17.5	210,253
1951. . . .	125,816	74.7	29,549	17.6	155,365	12,971	7.7	168,336
1952. . . .	140,200	70.6	34,951	17.6	175,151	23,321	11.8	198,472
1953. . . .	135,908	61.8	49,570	22.5	185,478	34,592	15.7	220,070
1954. . . .	148,861	60.9	64,147	26.2	213,008	31,589	12.9	244,597
1955. . . .	113,647	49.0	82,765	35.7	196,412	35,563	15.3	231,975
1956. . . .	152,701	57.0	76,744	28.7	229,445	38,215	14.3	267,660
1957. . . .	140,196	50.6	92,260	33.3	232,456	44,386	16.1	276,842
1958. . . .	149,810	46.3	127,321	39.4	277,131	46,204	14.3	323,335
1959. . . .	132,159	39.1	150,033	44.3	282,192	56,134	16.6	338,326
1960. . . .	149,325	42.3	152,063	43.1	301,388	51,755	14.6	353,143
1961. . . .	*174,144	47.2	136,468	36.9	310,612	*58,663	15.9	369,275
1962. . . .	155,555	39.6	179,951	45.9	335,506	56,719	14.5	392,225
1963. . . .	168,474	43.8	158,238	41.2	326,712	57,494	15.0	384,206
1964 4/ . .	163,759	40.5	*186,075	46.0	*349,834	54,605	13.5	*404,439

1/ Includes the pack from the U.S. catch landed in Puerto Rico. 2/ Includes tuna canned in American Samoa. 3/ Includes bonito and yellowtail. 4/ Preliminary. * Record.

SUPPLY OF CANNED BONITO AND YELLOWTAIL, VARIOUS YEARS, 1940-64

Year	U. S. pack		Imports				Total supply
			In oil	In brine	Total		
	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1940. . . .	4,049	(1)	(2)	(2)	(2)	(1)	(1)
1949. . . .	3,056	27.5	3/ 8,054	(3)	8,054	72.5	11,110
1950. . . .	1,332	14.1	3/ 8,135	(3)	8,135	85.9	9,467
1951. . . .	1,961	15.8	3/10,437	(3)	10,437	84.2	12,398
1952. . . .	4,266	23.6	3/13,812	(3)	13,812	76.4	18,078
1953. . . .	3,226	24.0	3/10,242	(3)	10,242	76.0	13,468
1954. . . .	1,446	8.6	12,996	2,375	15,371	91.4	16,817
1955. . . .	88	.6	11,725	3,589	15,314	99.4	15,402
1956. . . .	125	.9	10,409	3,210	13,619	99.1	13,744
1957. . . .	220	1.4	11,608	3,905	15,513	98.6	15,733
1958. . . .	2,107	14.4	9,759	2,732	12,491	85.6	14,598
1959. . . .	1,071	7.3	9,675	3,848	13,523	92.7	14,594
1960. . . .	276	2.7	7,109	2,795	9,904	97.3	10,180
1961. . . .	3,023	22.6	6,853	3,503	10,356	77.4	13,379
1962. . . .	610	6.5	6,127	2,600	8,727	93.5	9,337
1963. . . .	1,387	19.1	3,480	2,385	5,865	80.9	7,252
1964 4/ . .	467	8.6	3,050	1,941	4,991	91.4	5,458

1/ Data not available. 2/ Prior to 1948 imports of bonito and yellowtail were included with those of tuna. 3/ Data on the pack in brine have been included with the pack in oil.
4/ Preliminary.

CATCH AND IMPORTS OF TUNA, 1954-64

Year	U.S. Catch			Imports		
	Atlantic, Gulf, and Pacific Coast States and Hawaii	Puerto Rico	Total	Fresh & frozen including cooked loins and discs round weight 1/	Canned	
					In oil	In brine
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1954	340,031	6,388	346,419	127,830	1,111	30,478
1955	282,324	9,549	291,873	164,022	818	34,745
1956	343,202	12,000	355,202	152,941	586	37,629
1957	304,891	18,393	323,284	189,153	1,068	43,318
1958	328,232	16,652	344,884	263,171	758	45,446
1959	285,909	22,090	307,999	312,154	830	55,304
1960	298,203	20,910	319,113	295,022	596	51,159
1961	325,804	31,050	356,854	268,577	431	58,232
1962	312,157	28,790	340,947	355,967	358	56,361
1963	321,619	37,026	358,645	314,578	224	57,270
1964 2/	305,160	48,393	353,553	372,974	201	54,404

1/ Includes landings of foreign-caught fish in American Samoa. 2/ Preliminary.

SUPPLY OF CANNED SARDINES, 1953-64

Year	U. S. production		Imports 1/		Exports		Total supply available for U. S. consumption
	Maine	Pacific	In oil	Not in oil	In oil	Not in oil	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1953	65,110	2,862	23,094	34,271	773	9,184	115,380
1954	68,677	60,215	22,294	22,957	816	16,441	156,886
1955	29,691	63,657	20,930	9,886	1,179	45,431	77,554
1956	52,216	33,963	18,581	10,460	229	39,445	75,546
1957	51,894	22,399	20,127	14,396	379	14,922	93,515
1958	49,139	100,016	18,001	21,172	645	17,816	169,867
1959	41,024	33,956	21,153	11,603	1,271	37,453	69,012
1960	46,744	27,714	21,236	16,732	264	20,955	91,207
1961	17,635	18,859	27,877	25,702	185	7,475	82,413
1962	50,248	6,168	32,603	32,476	578	7,188	113,729
1963	37,890	2,568	19,913	30,164	146	3,493	86,896
1964 2/	20,259	5,438	20,068	33,109	839	2,426	75,609

1/ Includes sea herring. 2/ Preliminary.

SUPPLY OF CANNED SARDINES OBTAINED FROM DOMESTIC PACK AND IMPORTS, 1953-64

Year	U. S. pack 1/	Percent of total supply	Imports 2/	Percent of total supply	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1953	67,972	54.2	57,365	45.8	125,337
1954	128,892	74.0	45,251	26.0	174,143
1955	93,348	75.2	30,816	24.8	124,164
1956	86,179	74.8	29,041	25.2	115,220
1957	74,293	68.3	34,523	31.7	108,816
1958	149,155	79.2	39,173	20.8	188,328
1959	74,980	69.6	32,756	30.4	107,736
1960	74,458	66.2	37,968	33.8	112,426
1961	36,494	40.5	53,579	59.5	90,073
1962	56,416	46.4	65,079	53.6	121,495
1963	40,458	44.7	50,077	55.3	90,535
1964 3/	25,697	32.6	53,177	67.4	78,874

1/ Includes the pack of Maine and Pacific sardines. 2/ Includes sea herring. 3/ Preliminary.

SUPPLY OF FRESH AND FROZEN SPINY LOBSTERS, 1953-64

Year	U. S. catch 1/	Imports 2/
	Thousand pounds	Thousand pounds
1953	2,745	19,942
1954	2,849	19,760
1955	3,154	22,479
1956	3,849	25,258
1957	*4,687	28,236
1958	3,588	25,938
1959	3,698	28,092
1960	3,210	32,346
1961	3,235	32,610
1962	3,664	*35,947
1963	4,180	34,048
1964 3/	4,100	35,023

1/ Round weight. 2/ Imported weight, consisting largely of tails. 3/ Preliminary. * Record.

SUPPLY OF FRESH AND FROZEN NORTHERN LOBSTERS, 1953-64

Year	U. S. catch				Imports		Total supply
	Maine	Other States	Total	Percent of total	Total 1/	Percent of total	
	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1953	22,300	5,815	28,115	55	22,610	45	50,725
1954	21,668	5,813	27,481	55	22,468	45	49,949
1955	22,718	6,236	28,954	56	22,962	44	51,916
1956	20,572	5,948	26,520	54	22,484	46	49,004
1957	24,403	5,752	30,155	58	22,218	42	52,373
1958	21,312	5,915	27,227	56	21,413	44	48,640
1959	22,329	6,756	29,085	58	20,635	42	49,720
1960	24,014	7,154	*31,168	59	21,403	41	*52,571
1961	20,918	7,080	27,998	57	21,299	43	49,297
1962	22,075	7,422	29,497	57	22,101	43	51,598
1963	22,804	7,470	30,274	58	21,847	42	52,121
1964 2/	21,400	5,500	26,900	57	20,458	43	47,358

1/ Record imports, 1951 (23,558,000 pounds). 2/ Preliminary. * Record.

SUPPLY OF SHRIMP, 1953-64

Year	U. S. catch			Imports 1/			Total
	Heads-on	Heads-off	Percent of total	Import weight	Heads-off	Percent of total	Heads-off
	Thousand pounds	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1953	260,357	154,974	78	43,100	43,100	22	198,074
1954	*268,334	*159,723	79	41,519	41,519	21	201,242
1955	244,335	145,438	73	53,772	53,772	27	199,210
1956	224,173	133,436	66	68,618	68,618	34	202,054
1957	203,882	121,358	64	69,676	69,676	36	191,034
1958	213,842	127,287	60	85,394	85,394	40	212,681
1959	240,182	142,965	56	106,555	111,704	44	254,669
1960	249,452	148,483	55	113,418	119,139	45	267,622
1961	174,530	103,865	44	126,268	134,564	56	238,429
1962	191,105	119,154	44	141,183	152,504	56	271,658
1963	240,478	150,737	47	151,530	167,344	53	*318,081
1964 2/	208,300	131,125	44	*154,577	*169,175	56	300,300

1/ Imports for 1953-58 were considered to consist entirely of heads-off shrimp. Those for the following years were converted to heads-off weight on the basis of available data on the actual condition of the imports.
2/ Preliminary. * Record.

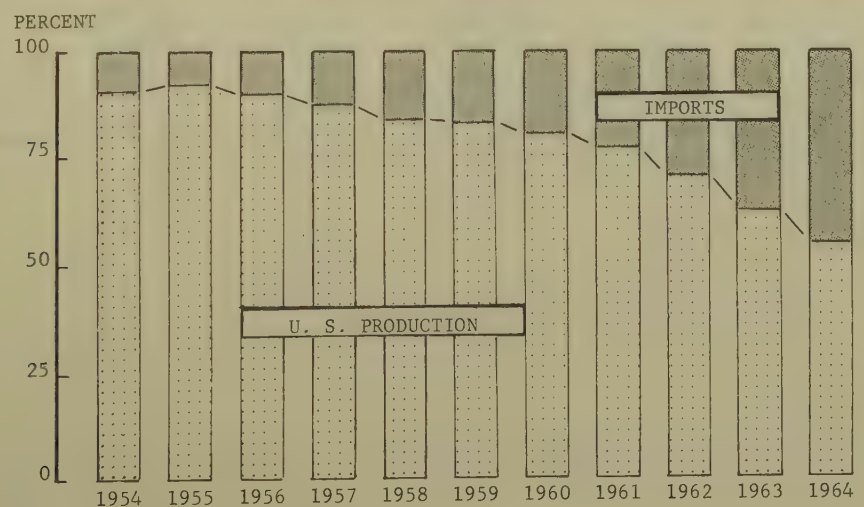
SUPPLY OF SCALLOP MEATS, 1954-64

Year	U. S. Catch 1/			
	Massachusetts	Other States	Total	Percent of total
	Thousand pounds	Thousand pounds	Thousand pounds	Percent
1954	15,586	3,254	18,840	90.3
1955	16,388	7,336	23,724	92.4
1956	16,150	5,216	21,366	90.1
1957	20,011	3,311	23,322	87.4
1958	16,856	4,392	21,248	84.5
1959	19,530	6,306	25,836	83.5
1960	21,512	7,230	28,742	80.7
1961	*21,608	*7,587	*29,195	77.1
1962	20,810	7,000	27,810	70.6
1963	16,941	4,515	21,456	61.6
1964 3/	13,719	4,723	18,442	53.4

Year	Imports				Total, available for U. S. consumption
	Canada	Other countries	Total	Percent of total	
	Thousand pounds	Thousand pounds	Thousand pounds	Percent	Thousand pounds
1954	1,229	788	2,017	9.7	20,857
1955	809	1,137	1,946	7.6	25,670
1956	1,339	1,011	2,350	9.9	23,716
1957	2,532	836	3,368	12.6	26,690
1958	2,464	1,439	3,903	15.5	25,151
1959	3,265	*1,842	5,107	16.5	30,944
1960	6,340	533	6,873	19.3	35,615
1961	8,555	97	8,652	22.9	37,847
1962	11,370	193	11,563	29.4	*39,373
1963	2/13,233	164	2/13,397	38.4	2/34,853
1964 3/	* 2/15,508	600	* 2/16,108	46.6	2/34,550

1/ Principally sea scallops. 2/ Includes small quantities of canned.
3/ Preliminary. *Record.

SUPPLY OF SCALLOP MEATS, 1954-64



SUPPLY OF CANNED SHRIMP, 1959-64

Year	U.S. pack	Imports	Exports		Total
			Domestic	Foreign	
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1959	13,832	(1)	2,876	19	(1)
1960	14,268	(1)	3,482	34	(1)
1961	9,284	(1)	2,503	25	(1)
1962	13,249	(1)	2,212	44	(1)
1963	15,904	2/4,120	3,199	33	16,792
1964 3/	9,740	3,005	3,692	25	9,028

1/ Data not available.
2/ Partly estimated.
3/ Preliminary.

ESTIMATED VOLUME OF FISH AND SHELLFISH MARKETED FROZEN IN THE UNITED STATES - 1950, 1955, AND 1960-63

To provide information on the growth of the domestic market for frozen fish and shellfish, information has been assembled on the volume of fish and shellfish marketed frozen in the United States during certain years from 1950 to 1963. The data include the domestic production and imports of frozen fish excluding quantities used for canning. The data are partly estimated since import statistics do not always indicate whether entries are frozen; moreover, a portion of items such as breaded shrimp is prepared from frozen products, and allowances have been made to prevent duplication of these data.

(Product weight)

Year	For human food		For animal food and bait	Total
	Quantity	Per capita		
	Thousand pounds	Pounds	Thousand pounds	Thousand pounds
1950	460,453	3.1	11,808	472,261
1955	597,117	3.7	39,454	636,571
1960	678,841	3.8	65,318	744,159
1961	745,306	4.1	65,384	810,690
1962	768,863	4.2	62,661	831,524
1963	775,463	4.2	65,927	841,390

Note:--The volume of fish and shellfish marketed frozen does not include several hundred million pounds of frozen imported and domestically caught tuna used for canning.

SUPPLY OF CANNED CRAB MEAT, VARIOUS YEARS, 1939-64

Year	U. S. pack	Percent of total supply	Imports	Percent of total supply	Total supply	Exports	Total available for U.S. consumption
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Thousand pounds	Thousand pounds
1939.	640	4.5	*13,507	95.5	*14,147	-	*14,147
1948.	4,306	76.3	1,337	23.7	5,643	73	5,570
1950.	2,675	39.7	4,070	60.3	6,745	20	6,725
1951.	2,924	59.8	1,968	40.2	4,892	47	4,845
1952.	1,678	44.7	2,080	55.3	3,758	33	3,725
1953.	2,240	36.0	3,983	64.0	6,223	20	6,203
1954.	3,013	51.2	2,867	48.8	5,880	19	5,861
1955.	1,934	28.1	4,951	71.9	6,885	19	6,866
1956.	2,431	30.1	5,640	69.9	8,071	17	8,054
1957.	3,013	32.8	6,185	67.2	9,198	29	9,169
1958.	2,804	32.4	5,854	67.6	8,658	(1)	8,658
1959.	2,942	28.7	7,304	71.3	10,246	(1)	10,246
1960.	4,115	47.7	4,507	52.3	8,622	(1)	8,622
1961.	5,000	54.1	4,237	45.9	9,237	(1)	9,237
1962.	5,621	61.6	3,505	38.4	9,126	(1)	9,126
1963.	*7,356	58.1	5,296	41.9	12,652	(1)	12,652
1964 2/ . . .	5,700	55.8	4,508	44.2	10,208	(1)	10,208

1/ Data not available. 2/ Preliminary. * Record.

SUPPLY OF FISH OILS, 1950-64

(Excluding liver, whale, and sperm oil)

Year	U. S. production	Imports	Total supply	Exports 1/	Available for U. S. consumption
	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds	Thousand pounds
1950.	160,745	15,135	175,880	75,975	99,905
1951.	133,531	17,370	150,901	49,838	101,063
1952.	118,634	15,592	134,226	43,958	90,268
1953.	150,674	11,955	162,629	108,465	54,164
1954.	162,210	13,012	175,222	141,630	33,592
1955.	185,092	10,380	195,472	142,672	52,800
1956.	197,268	10,658	207,926	140,805	67,121
1957.	148,194	7,252	155,446	114,938	40,508
1958.	161,636	4,928	166,564	94,042	72,522
1959.	183,177	6,750	189,927	144,481	45,446
1960.	205,619	8,932	214,551	143,659	70,892
1961.	254,596	8,385	262,981	122,486	140,495
1962.	247,464	10,755	258,219	123,050	135,169
1963.	183,673	8,579	192,252	262,342	- 70,090
1964 2/ . . .	177,015	11,500	188,515	151,469	37,046

1/ Includes small quantities of non-medicinal liver oils. 2/ Preliminary.

SUPPLIES OF CERTAIN FISHERY PRODUCTS

SUPPLY OF FISH MEAL AND SOLUBLES, 1953-64

Year	U. S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1953	279,598	68.0	2/131,473	32.0	411,071
1954	314,482	68.1	147,584	31.9	462,066
1955	319,962	76.2	99,692	23.8	419,654
1956	360,207	79.6	92,089	20.4	452,296
1957	325,221	79.0	86,414	21.0	411,635
1958	313,228	74.3	108,167	25.7	421,395
1959	*389,231	72.5	147,392	27.5	536,623
1960	339,601	71.8	133,349	28.2	472,950
1961	367,392	62.3	221,923	37.7	589,315
1962	374,583	59.4	256,320	40.6	630,903
1963	309,608	44.9	380,132	55.1	689,740
1964 3/	281,900	38.9	*441,889	61.1	*723,789

1/ Includes homogenized condensed fish for 1953-63; no production in 1964. 2/ Imports of meal only. Data not available on imports of solubles. 3/ Preliminary. *Record.
Note:--Wet weight of solubles and homogenized condensed fish have been converted to dry weight by reducing their poundage by one-half.

SUPPLY OF FISH MEAL, 1953-64

Year	U. S. production		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1953	238,851	64.5	131,473	35.5	370,324
1954	256,967	63.8	145,777	36.2	402,744
1955	264,502	73.0	98,003	27.0	362,505
1956	295,793	76.6	90,421	23.4	386,214
1957	264,085	76.5	81,196	23.5	345,281
1958	248,140	71.2	100,352	28.8	348,492
1959	306,551	69.8	132,925	30.2	439,476
1960	290,137	68.8	131,561	31.2	421,698
1961	311,265	58.8	217,845	41.2	529,110
1962	*312,259	55.3	252,307	44.7	564,566
1963	255,907	40.5	376,321	59.5	632,228
1964 1/	235,252	34.9	*439,143	65.1	*674,395

1/ Preliminary. *Record.

SUPPLY OF FISH SOLUBLES, 1953-64

Year	U. S. production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1953	81,494	100.0	(2)	-	81,494
1954	115,030	97.0	3,614	3.0	118,644
1955	110,919	97.1	3,297	2.9	114,216
1956	128,829	97.7	2,991	2.3	131,820
1957	122,273	92.6	9,709	7.4	131,982
1958	130,177	89.9	14,567	10.1	144,744
1959	*165,359	86.1	*26,630	13.9	*191,989
1960	98,929	96.9	3,174	3.1	102,103
1961	112,254	94.3	6,739	5.7	118,993
1962	124,649	95.2	6,308	4.8	130,957
1963	107,402	93.8	7,112	6.2	114,514
1964 3/	93,296	95.4	4,505	4.6	97,801

1/ Includes homogenized condensed fish for 1953-63; no production in 1964. 2/ Data not available. 3/ Preliminary. *Record.
Note:--Imports of solubles are understood to be on a wet-weight basis except for those from the Republic of South Africa, which are believed to be on a dry-weight basis.

The 1963 world commercial landings of fish, crustaceans, mollusks, etc., totaled 102.3 billion pounds, according to the "Yearbook of Fishery Statistics, 1963" released by the Food and Agriculture Organization of the United Nations. The landings were 2 percent more than the 1962 production of 99.9 billion pounds and once again established a new record.

In 1962, Peru had replaced Japan as world leader in total fishery landings with a spectacular increase in the catch of industrial fish (anchoveta) used primarily for fish meal. Peru continued to lead in 1963 with 14.9 percent of the world catch, followed by Japan with 14.4 percent. The China, Mainland catch (1959 data) was third with 10.8 percent, the U. S. S. R. was fourth (8.6 percent), and the United States, fifth (6.0 percent). These five nations accounted for 55 percent of the 1963 world catch.

Asia accounted for 38 percent of the world landings, followed by Europe (19 percent); South America (18 percent); North America (10 percent); the U. S. S. R. (9 percent); and Africa (6 percent). An insignificant percentage was taken in Oceania.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1963
(Live weight basis)

Country	Billion pounds	Percent
Peru	15.21	14.9
Japan	14.77	14.4
China (Mainland)	1/11.07	10.8
U. S. S. R.	8.77	8.6
United States	2/ 6.12	6.0
Norway	3.06	3.0
Canada	2.63	2.6
Spain	2.42	2.4
India	2.31	2.3
United Kingdom	2.10	2.1
Indonesia	2.06	2.0
Denmark	1.87	1.8
Iceland	1.73	1.7
Chile	1.68	1.6
France	1.64	1.6
Germany, Western	1.42	1.4
South Africa	1.30	1.3
Philippines	1.25	1.2
South West Africa	1.23	1.2
Portugal	1.19	1.2
Korea, South	.98	1.0
Thailand	.92	.9
Brazil	3/ .84	.8
Netherlands	.80	.8
Burma	.79	.8
China (Taiwan)	.77	.7
Pakistan	.76	.7
Sweden	.75	.7
Viet-Nam, South	.73	.7
Angola	3/ .59	.6
Mexico	.54	.5
Federation of Malaya	.54	.5
Italy	.51	.5
Poland	.50	.5
Germany, Eastern	.41	.4
Morocco	.39	.4
Cambodia	.35	.3
Other	7.29	7.1
Total	102.29	100.0

1/ 1959 data. 2/ Revised (includes the weight of clam, oyster, scallop, and other mollusk shells amounting to 1,273 million pounds. The weight of these shells are not included in other U.S. catch statistics. 3/ 1962 data.
Source:--Yearbook of Fishery Statistics, 1963, Volume XVI, Food and Agriculture Organization of the United Nations.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY CONTINENTS, 1958 AND 1963

(Live weight basis)

Continent	1958	1963	Increase (1963 over 1958)
	Billion pounds	Billion pounds	Percent
Asia (excluding U. S. S. R.)	31.92	39.24	23
Europe (excluding U. S. S. R.)	17.06	19.49	14
South America	3.52	18.72	432
North America	8.82	9.59	9
U. S. S. R.	5.77	8.77	52
Africa	4.54	6.19	36
Oceania	.24	.29	21
Total	71.87	102.29	42

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY MAJOR FISHING AREAS, 1958 AND 1963

(Live weight basis)

Continent	1958	1963	Increase (1963 over 1958)
	Billion pounds	Billion pounds	Percent
Marine fisheries:			
Northern hemisphere areas	45.19	53.79	19
Southern hemisphere areas	5.73	22.27	289
Tropical areas	12.13	15.43	27
Total	63.05	91.49	45
Fresh-water fisheries:			
Asia (excluding U. S. S. R.)	5.73	7.28	27
Africa	1.33	1.54	16
U. S. S. R.	1.10	.88	-20
Europe (excluding U. S. S. R.)	.22	.44	100
South America	.22	.44	100
North America	.22	.22	-
Oceania	(1)	(1)	(1)
Total	8.82	10.80	22
Grand Total	71.87	102.29	42

1/ Negligible.

ESTIMATED USE OF THE WORLD CATCH, 1958 AND 1963

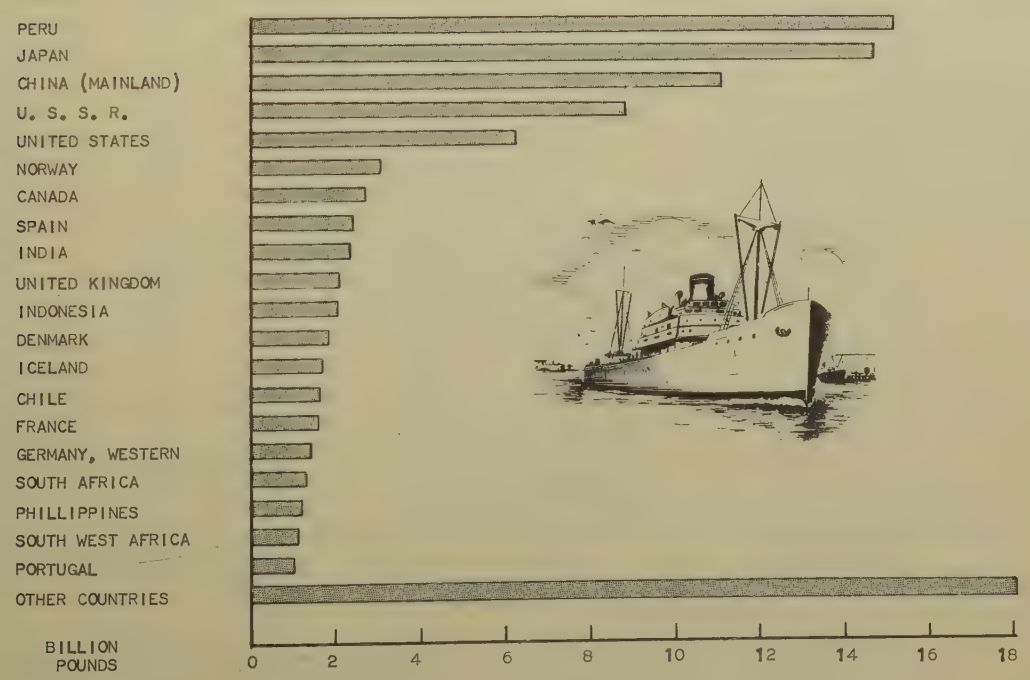
(Live weight basis)

Manner Used	1958	1963	Increase (1963 over 1958)
	Billion pounds	Billion pounds	Percent
Marketed fresh	31.5	36.2	15
Reduced to meal, oil, etc.	9.5	26.4	178
Cured	16.1	18.3	14
Frozen	6.0	10.4	73
Canned	6.6	8.8	33
Miscellaneous purposes	2.2	2.2	-
Total	71.9	102.3	42

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY SPECIES GROUPS, 1958 AND 1963
(Live weight basis)

Species groups	1958	1963	Increase (1963 over 1958)
	Billion pounds	Billion pounds	Percent
Herrings, sardines, anchovies, etc.	16.03	32.65	104
Mixed and unidentified fishes	11.75	15.61	33
Cods, hakes, haddocks, etc.	9.85	12.90	31
Fresh-water fishes	8.88	10.82	22
Mollusks	4.54	6.28	38
Redfishes, basses, congers, etc.	4.89	5.84	19
Jacks, mullets, etc.	3.79	4.06	7
Tunas, bonitos	2.23	2.76	24
Mackerels, billfishes, cutlassfishes, etc.	2.18	2.62	20
Crustaceans	1.81	2.38	31
Flounders, halibuts, soles, etc.	1.74	2.09	20
Salmons, trouts, smelts, etc.	1.61	1.34	-17
Miscellaneous (turtles, frogs, aquatic plants, etc.)	.90	1.12	24
Sharks, rays, chimaeras	.73	.86	18
Sturgeons, paddlefishes	.31	.46	48
Shads, milkfishes, etc.	.51	.35	-31
Sea cucumbers, sea urchins, ascidians, etc.	.07	.08	14
River eels	.05	.07	40
Total	71.87	102.29	42

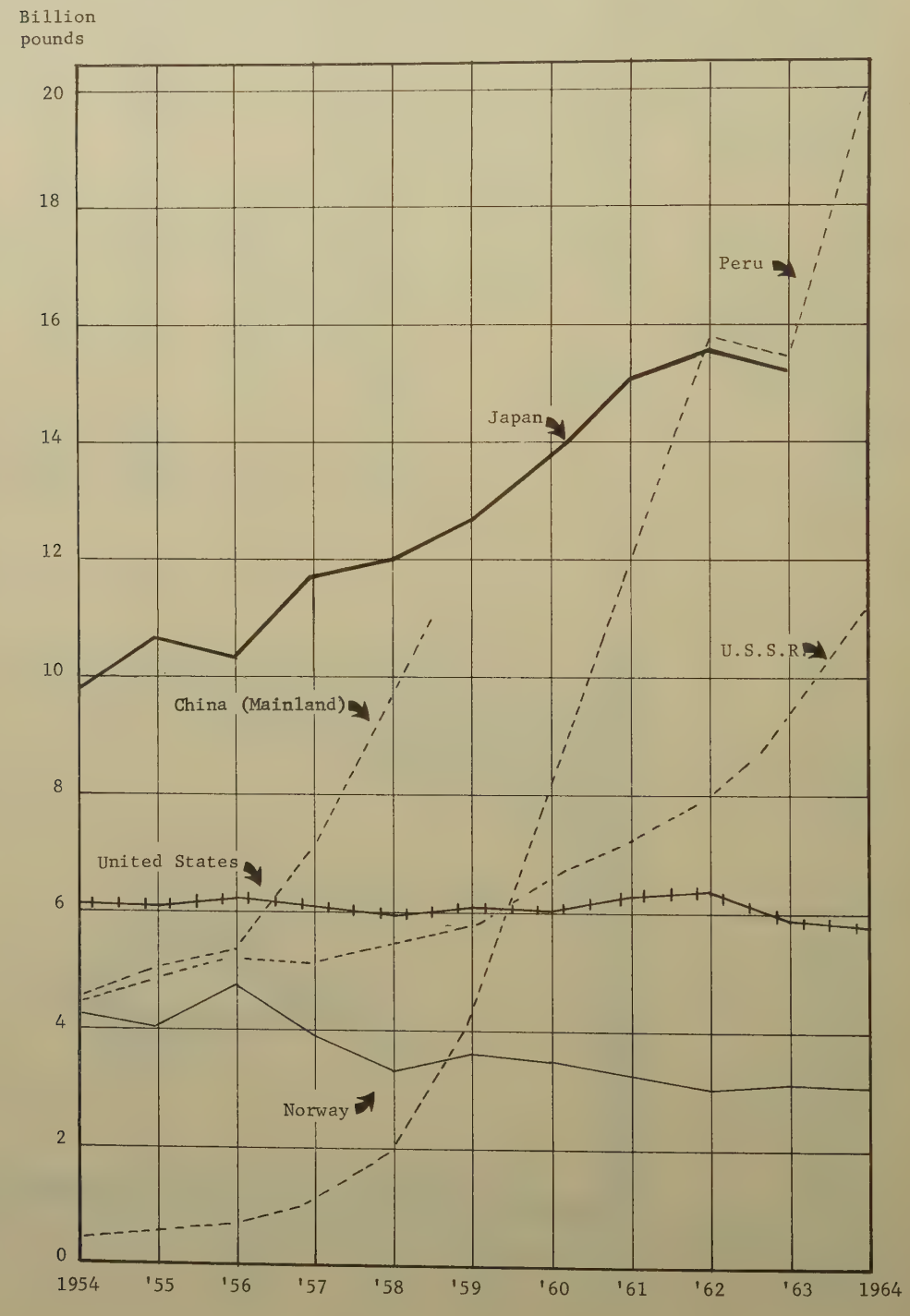
WORLD CATCH OF FISH, CRUSTACEANS, MOLLUSKS, ETC., BY COUNTRIES, 1963



Leading Fishing Nations

Until 1957, the United States was second only to Japan in volume of catch of fishery products. Data submitted to the Food and Agriculture Organization of the United Nations by mainland China for 1957 indicated that in that year, it had moved into second place. In 1960, both Peru and the U.S.S.R. also moved ahead of the United States.

WORLD CATCH OF FISH AND SHELLFISH, ETC., BY LEADING COUNTRIES, 1954-64



The Bureau of Commercial Fisheries receives numerous requests for data on lengths of coastline and tidal shoreline of the United States. Graphic measurements have been made from time to time by the U.S. Coast and Geodetic Survey on maps of various scales and in units of various lengths. The three types of measurement are explained in the following paragraphs.

GENERAL COASTLINE.--The figures under this heading are lengths of the general outline of the seacoast. The measurements were made with a unit measure of 30 minutes of latitude on charts as near the scale of 1:1,200,000 as possible. The shoreline of bays and sounds is included to a point where such waters narrow to the width of the unit measure, and the distance across at such point is included.

TIDAL SHORELINE, GENERAL.--Measurements under this heading were made with a unit measure of 3 statute miles on charts of 1:200,000 and 1:400,000 scale when available. The shoreline of bays, sounds, and other bodies of water is included to a point where such waters narrow to a width of 3 statute miles, and the distance across at such point is included.

TIDAL SHORELINE, DETAILED.--The figures under this heading were obtained in 1939-40 with a recording measure on the largest scale maps and charts then available. Shoreline of bays, sounds, and other bodies of water is included to the head of tidewater, or to a point where such waters narrow to a width of 100 feet.

LENGTH OF COASTLINE

LOCALITY	LENGTHS IN STATUTE MILES			LOCALITY	LENGTHS IN STATUTE MILES		
	GENERAL COASTLINE	TIDAL SHORELINE, GENERAL	TIDAL SHORELINE, DETAILED		GENERAL COASTLINE	TIDAL SHORELINE, GENERAL	TIDAL SHORELINE, DETAILED
NEW ENGLAND:				GULF:			
MAINE	228	676	3,478	FLORIDA, WEST COAST	770	1,658	5,095
NEW HAMPSHIRE	13	14	131	ALABAMA	53	199	607
MASSACHUSETTS	192	453	1,519	MISSISSIPPI	44	155	359
RHODE ISLAND	40	156	384	LOUISIANA	397	985	7,721
CONNECTICUT	-	96	618	TEXAS	367	1,100	3,359
TOTAL NEW ENGLAND	473	1,395	6,130	TOTAL GULF COAST	1,631	4,097	17,141
MIDDLE ATLANTIC:				PACIFIC:			
NEW YORK	127	470	1,850	ALASKA	6,640	15,132	33,904
NEW JERSEY	130	398	1,792	WASHINGTON	157	908	3,026
PENNSYLVANIA	-	-	89	OREGON	296	312	1,410
DELAWARE	28	79	381	CALIFORNIA	840	1,190	3,427
TOTAL MIDDLE ATLANTIC	285	947	4,112	TOTAL PACIFIC COAST	7,933	17,542	41,767
				HAWAII	750	900	1,052
CHESAPEAKE:							
MARYLAND	31	452	3,190	TOTAL UNITED STATES	12,383	28,909	88,633
VIRGINIA	112	567	3,315				
TOTAL CHESAPEAKE	143	1,019	6,505	U.S. TERRITORIES, POSSESSIONS, ETC.:			
				BAKER ISLAND	3	3	3
SOUTH ATLANTIC:				CHRISTMAS ISLAND	80	90	188
NORTH CAROLINA	301	1,030	3,375	GUAM ISLANDS	78	84	110
SOUTH CAROLINA	187	758	2,876	HOWLAND ISLAND	4	4	4
GEORGIA	100	603	2,344	JARVIS ISLAND	5	5	5
FLORIDA, EAST COAST	580	618	3,331	JOHNSTON ISLAND	3	3	3
TOTAL SOUTH ATLANTIC	1,168	3,009	11,926	NAVASSA ISLAND	5	5	5
				PALMYRA ISLAND	9	9	16
				PANAMA CANAL ZONE	20	20	126
				PUERTO RICO	311	362	700
				SAMOA ISLANDS	76	91	126
				SWAN ISLANDS	6	6	6
TOTAL ATLANTIC COAST	2,069	6,370	28,673	VIRGIN ISLANDS	117	126	175
				WAKE ISLAND	12	12	20

SOURCE:--U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

UNITED STATES DEPARTMENT OF THE INTERIOR

WASHINGTON, D. C. 20240

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Assistant to the Director, Russel T. Norris		3339	2540
American Fisheries Advisory Committee, Robert D. Balkovic		3339	33765
Hearings Examiner, Alfred P. Whittaker		512 1/	2995
Assistant Director for Administration, Cleo F. Layton		3355	33436
Branch of:	Chief:		
Audit	William A. Butron	3438	2213
Budget and Finance	Vacancy		
Management Analysis	Donald D. Carruth	1044	6703
Personnel Management	C. Doyle Innis	2353	5406
Property Management	Kenneth A. Lawrence	2552	5415
Assistant Director for Biological Research, J. Lawrence McHugh		3347	4106
Acting Deputy Assistant Director (Vacant)		3042A	5719
Branch of:	Chief:		
Anadromous Fisheries	Mitchell G. Hanavan	2554	6855
Inland Fisheries	Philip R. Nelson	3042A	5719
Marine Fisheries	Joseph E. King	1364	5521
Shellfisheries	Roland F. Smith	3040	5715
Assistant Director for Economics, Lawrence W. Van Mier (Acting)		3340	4151
Branch of:	Chief:		
Economic Research	Harvey Hutchings (Acting)	606 1/	7715
Current Economic Analysis	Fred L. Olson (Acting)	605 1/	6907
Fishery Statistics	Charles H. Lyles (Acting)	505 1/	7850
Foreign Trade and Economic Services	Arthur M. Sandberg (Acting)	3447	5295
Assistant Director for Industrial Research, Charles Butler		3351	4386
Deputy Assistant Director, John A. Holston		3351	4387
Branch of:	Chief:		
Exploratory Fishing	Edward A. Schaefers	2465	2646
Foreign Fisheries	Frank T. Piskur	8015	4412
Marketing	Paul J. Paradis (Acting)	3060	2151
Technology	Harold B. Allen	2560	4745
Assistant Director for Resource Development, Ralph C. Baker		3352	2184
Deputy Assistant Director, John I. Hodges		3348	2184
Branch of:	Chief:		
Loans and Grants	C. Eldred Peterson	2351	4574
Market News	Joseph Pileggi	510 1/	4843
Reports	Leslie W. Scattergood	610 1/	6961
Resource Management	A. F. Rollins	2449	4543

1/ 1815 N. Ft. Myer Drive, Arlington, Va. 22209.

GENERAL ADMINISTRATIVE INFORMATION

BUREAU OF COMMERCIAL FISHERIES

REGIONAL AND AREA OFFICES

Region 1 (Pacific Northwest Region)
Samuel J. Hutchinson, Director
6116 Arcade Building
Seattle, Washington 98101
Telephone: Area Code 206, 682-1144

Region 2 (Gulf and South Atlantic Region)
Seton H. Thompson, Director
Don Ce-Sar Federal Center
Post Office Box 6245
St. Petersburg Beach, Florida 33726
Telephone: Area Code 813, 363-5311

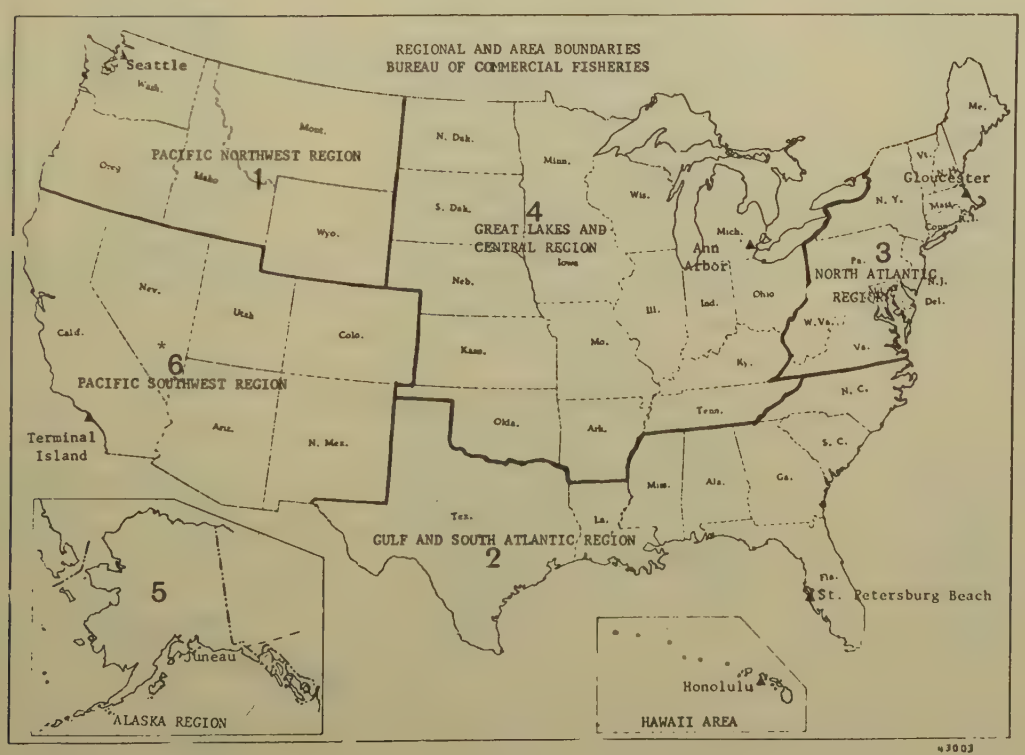
Region 3 (North Atlantic Region)
John T. Gharrett, Director
Post Office Building
Gloucester, Massachusetts 01930
Telephone: Area Code 617, 283-6410

Region 4 (Great Lakes and Central Region)
William F. Carbine, Director
5 Research Drive
Ann Arbor, Michigan 48103
Telephone: Area Code 313, 663-8541 Ext. 456

Region 5 (Alaska Region)
Harry L. Rietze, Director
Juneau Dairies Building
Post Office Box 2481
Juneau, Alaska 99801
Telephone: Area Code 907, 586-3511

Region 6 (Pacific Southwest Region)
Donald R. Johnson, Director
101 Seaside Avenue
Terminal Island, California 90731
Telephone: Area Code 213, 831-9281

Hawaii Area Office
John C. Marr, Director
2570 Dole Street
Post Office Box 3830
Honolulu, Hawaii 96812
Telephone: Area Code 808, 962181



FISHERY STATISTICAL OFFICES

		Telephone Number	Area Code
	NEW ENGLAND		
Rockland, Maine 04841	R.C. Barnard, 457 Main St.	594-5969	207
West Boothbay Harbor, Maine 04575	D.A. McKown, P.O. Box 33	164 (home)	207
Portland, Maine 04111	A.F. Thibodeau, Rm. 17, Custom House	772-3362	207
Gloucester, Mass. 01931	D.L. Hoy, P.O. Box 100, 105 Maplewood Ave.	283-3420	617
Boston, Mass. 02210	J.C. Malone, Rm. 10, Commonwealth Pier	542-6070	617
New Bedford, Mass. 02740	J.V. Mahoney, Custom House	993-6972	617
Provincetown, Mass. 02657	F.C. Blossom, P.O. Bldg., Box 91	868	617
Warren, R.I. 02885	W.J. Murphy, Rm. 205, P.O. Bldg.	245-2224	401
Point Judith, R.I. 02882	James E. Miller, Sand Hill Cove Rd.	783-7797	401
	MIDDLE ATLANTIC		
Bayport, L.I., N.Y. 11705	C.T. Smith, 965 Montauk Highway, P.O. Box 815	472-1787	516
Toms River, N.J. 08753	E.A. LoVerde, P.O. Box 143, 26 Main St.	349-3533	201
	CHESAPEAKE		
Oxford, Md. 21654	W.E. Brey, BCF Biological Lab.	226-5193	301
Salisbury, Md. 21801	R.H. Wilson, Rm. 11, P.O. Bldg., P.O. Box 885	749-6109	301
Weems, Va. 22576	J.P. Wharton	(Irvington) 438-3672	703
Norfolk, Va. 23514	T.D. Walsh, Box 3224, Custom House Sta. (Fort Norfolk Army Engineers-Dist. Bldg. No. 7)	625-0040	703
	SOUTH ATLANTIC AND GULF		
Beaufort, N.C. 28516	C.D. Stewart, U.S. Fisheries Lab., P.O. Box 500	728-4968	919
Charleston, S.C. 29401	M.H. Low, Rm. G-3, Custom	RAymond 2-4783	803
Brunswick, Ga. 31521	H.F. Prytherch, Rm. 303, Federal Bldg.	AMherst 5-2152	912
Miami, Fla. 33149	L.E. Johnson, 1 Rickenbacker Causeway	EMerson 1-2595	305
Key West, Fla. 33041	E.A. Hardy, Rm. 317, P.O. Bldg.	CYpress 4-1921	305
Fort Myers, Fla. 33902	J.E. Naughton, P.O. Bldg., P.O. Box 227	EDison 4-9361	813
Tampa, Fla. 33605	T. Allen, 1508 Lucas Drive, Hookers Point	248-3906	813
Apalachicola, Fla. 32320	P.E. Thompson, P.O. Box 362	OLiver 3-5000	305
Bayou LaBatre, Ala. 36509	D.J. Bond, P.O. Box 591	824-4149	205
Ocean Springs, Miss. 39564	H.G. Hague, P.O. Box 218	TRinity 5-5345	601
New Orleans, La. 70130	G.W. Snow, Rm. 608 Federal Bldg., South	527-6151	504
Galliano, La. 70354	M.P. Duet, P.O. Box 162	MErcury 2-7157	504
Houma, La. 70360	C.G. Dunn, 1626 Barrow St.	UPland 2-3321	504
Morgan City, La. 70380	D.P. Delaune, Rm. 213, P.O. Bldg.	459-4155	504
Port Arthur, Tex. 77640	J.W. Wallace, Rm. 14-C, P.O. & Custom Bldg.	YUkon 5-7871	713
Galveston, Tex. 77552	O.H. Farley, Bio. Lab., Lab. A, Bldg. 302, Ft. Crockett	SOuthfield 2-8448	713
Galveston, Tex. 77550	J.W. Morgan, Rm. 322, Custom House Bldg.	SOuthfield 2-7642	713

(Continued on next page)

FISHERY STATISTICAL OFFICES - Continued

SOUTH ATLANTIC AND GULF - Continued

Freeport, Tex. 77541	D.W. Stevens, P.O. Box 2533	BElmont 3-4551	713
Aransas Pass, Tex. 78336	V.L. Strock, P.O. Box 174	758-3787	512
Port Isabel, Tex. 78520	A.A. LaFrance, P.O. Box 467, Brownsville, Tex.	FIllmore 6-4050	512
Brownsville, Tex. 78520	W.S. Schiwetz, P.O. Box 467	FIllmore 6-4050	512

PACIFIC COAST

Juneau, Alaska 99801	W.K. Evans, P.O. Box 2481	JUniper 6-3441	-
Seattle, Wash. 98104	C.M. Reardon, 706 Federal Office Bldg.	MAin 2-0740	206
San Pedro, Calif. 90731	V.J. Samson, Rm. 205, P.O. Bldg.	831-9271	213

CENTRAL STATES

Ann Arbor, Mich. 48103	H.J. Buettner, 5 Research Drive	663-8541 Ext. 456	313
Camden, Tenn. 38320	E.C. Allen, City Hall, P.O. Box 252	584-5501	901

HAWAII

Honolulu, Hawaii 96812	T.S. Hida, 2570 Dole Street	962181	808

FISHERY MARKET NEWS OFFICES

Boston, Mass. 02210	J.J. O'Brien, Rm. 10, Commonwealth Pier (TWX 617-451-3455)	LIberty 2-6070	617
New York, N.Y. 10038	T.J. Risoli, 155 John Street (TWX 212-571-1718)	344-4559	212
Baltimore, Md. 21202	J.A. Coyne, 103 S. Gay Street (TWX 301-955-0150)	PLaza 2-8460 Ext. 2697	301
Hampton, Va. 23369	W.N. Kelly, P.O. Box 447 (TWX 703-733-2967)	PArk 3-3360	703
New Orleans, La. 70130	E.J. Barry, Rm. 608, Federal Bldg. 600 South Street (TWX 504-822-5120)	527-6151	504
San Pedro, Calif. 90731	V.J. Samson, Rm. 208, P.O. Bldg. (TWX 213-548-0920)	831-9271	213
Seattle, Wash. 98104	C.M. Reardon, 706 Federal Office Bldg. 909 First Avenue (TWX 206-998-0211)	MAin 2-0740	206
Chicago, Ill. 60607	C.E. Cope, Rm. 704, U.S. Customs House 610 Canal Street (TWX 312-431-1488)	828-5772	312

BRANCH OF LOANS AND GRANTS

Boston, Mass. 02210	408 Atlantic Avenue	363-5311	617
St. Petersburg,Beach, Fla. 33736	P.O. Box 6245	363-5311	813
Terminal Island, Calif. 90731	101 Seaside Avenue	831-9281 Ext. 275	213
Seattle, Wash. 98101	6116 Arcade Bldg.	682-3300 Ext. 1144	206
Juneau, Alaska 99801	P.O. Box 2481	586-3511	907
Honolulu, Hawaii 96812	2570 Dole Street	962181	808

PUBLICATIONS

The following partial listing of the Service's Publication Series is presented for the information of interested persons or organizations. Most are distributed free to persons interested in receiving them. However, some reports must be purchased. Information on how to obtain the various reports released by the Branch of Statistics and the Branch of Market News will be found on pages 70 and 71.

Fishery Statistical Publications of the Bureau of Commercial Fisheries, (Fishery Leaflet 432).--This report contains a descriptive listing of all statistical publications released by the Bureau. It catalogs in detail the many publications in the Current Fishery Statistical series; daily, monthly, and annual Market News reports; and statistical digests. It also contains listings of fishery statistical reports released by other Federal agencies, International Commissions, Interstate Compact Commissions, and non-Government fishery agencies.

Fishery Bulletins.--A series comprised of technical reports of fundamental scientific investigations, of primary interest to naturalists and researchers, relating to the biology of fishes and other aquatic animals. These reports include monographs, and reports of studies of distribution, migration, life history, and ecology (including oceanography and limnology) of aquatic organisms and populations thereof, contributions to the theory and methodology of fishery research, and papers on the scientific basis of fishery management.

Fishery Leaflets.--These are used as correspondence aids in giving information on fishes and fisheries frequently requested by correspondents.

Fishery Circulars.--This is a series which includes popular and semitechnical publications, of general or regional interest, intended to aid conservation and the management of fishery resources.

Research Reports.--A series comprised of technical papers giving the final results of scientific investigations -- biological, technological, and economic -- of primary concern to those who would apply the results. These papers include reports on stream surveys, fish-cultural or stocking methods, fishery economics, technology, nutrition, and pharmacology, advances in shellfish culture and other methods applicable to fish and wildlife management in general.

Special Scientific Reports.--A series comprised of preliminary reports, progress reports, and reports of results of investigations of restricted scope relating to fishes and fisheries. The series is intended to aid or direct management or utilization practices, and as guides for administrative or legislative action.

Statistical Digests.--A series comprised of annual statistical summaries, chiefly tabular, but usually with explanatory text, relating to the fishery resources.

Available Leaflets on Fisheries, (Fishery Leaflet 9).--This publication is a list of fishery publications available free-of-charge from the Office of Information, U. S. Fish and Wildlife Service, Washington, D. C. 20240

DETACH AND USE FOR REQUESTING PUBLICATIONS LISTED ON PAGE 71

TO OBTAIN FISHERY STATISTICAL PUBLICATIONS

Current Fishery Statistics

The current fishery statistical reports listed on page 64 are mailed free to interested persons and organizations. To be placed on the mailing list to receive any of these reports, detach this sheet, fill in name and address below, check desired reports on page 71, and mail to:

U. S. Department of the Interior
Bureau of Commercial Fisheries
Branch of Fishery Statistics
1815 N. Ft. Myer Drive
Arlington, Virginia 22209

Statistical Digests

A limited number of Statistical Digests are made available each year for free distribution to Government Agencies, research organizations, State fishery departments, and other groups having special interests in fishery statistics. Persons or organizations not meeting these qualifications can purchase copies of the Digests from:

Superintendent of Documents
U. S. Government Printing Office,
Washington, D. C. 20240

Fishery Products Reports

To obtain the Fishery Products Reports published by any of the Bureau's Fishery Market News offices, a request should be mailed to the particular office--see page 68 for addresses.

CHECK ON PAGE 64

Name_____

Firm or Organization_____

Street_____

City_____Zip Code_____

State_____

PUBLICATIONS

REQUEST TO BE PLACED ON MAILING LIST

CHECK DESIRED PUBLICATIONS

The following are issued only as annual bulletins:

( ) US-1 Fisheries of the United States (Comprehensive review of the fisheries)

( ) SR-1 New England Fisheries
( ) SR-2 Middle Atlantic Fisheries
( ) SR-3 Chesapeake Fisheries
( ) SR-4 South Atlantic Fisheries
( ) SR-5 Gulf Fisheries
( ) SR-6 Pacific Coast Fisheries
( ) SR-7 Great Lakes Fisheries
( ) SR-8 Mississippi River Fisheries
( ) SR-9 Alaska Fisheries
( ) SR-10 United States Fisheries (Summary, operating unit, and catch statistics)

( ) MF-1 Canned Fishery Products
( ) MF-2 Industrial Fishery Products
( ) MF-3 Packaged Fishery Products
( ) MF-4 Manufactured Fishery Products
( ) MF-5 Fish Sticks, Fish Portions, and Breaded Shrimp (Quarterly and Annual)
( ) MF-6 Imports and Exports of Fishery Products

The following are issued as monthly and annual bulletins:

( ) FF Frozen Fish Report

( ) FM Fish Meal and Oil

( ) NA-1 Maine Landings
( ) NA-2 Massachusetts Landings
( ) NA-3 Rhode Island Landings
( ) NA-4 New York Landings
( ) NA-5 New Jersey Landings

( ) SA-1 Maryland Landings
( ) SA-2 Virginia Landings
( ) SA-3 North Carolina Landings
( ) SA-4 South Carolina Landings
( ) SA-5 Georgia Landings

( ) GC-1 Florida Landings
( ) GC-2 Alabama Landings
( ) GC-3 Mississippi Landings
( ) GC-4 Louisiana Landings
( ) GC-5 Texas Landings
( ) GC-6 Shrimp Landings
( ) GCS Gulf Coast Shrimp Data

( ) PC-1 Washington Landings
( ) PC-2 Oregon Landings
( ) PC-3 California Landings
( ) PC-4 Hawaii Landings

( ) GL-2 Wisconsin Landings
( ) GL-3 Michigan Landings
( ) GL-4 Ohio Landings

GPO 89

WORLD IMPORT TRADE IN FISHERY PRODUCTS

Information assembled by the Food and Agriculture Organization of the United Nations shows that the United States leads all countries in the volume and value of imports of fishery products. In 1963, the volume of U. S. imports reported by F. A. O. was 1,984,482,000 pounds, valued at $436,235,000. The volume was 31 percent more than for second place Germany, while the value was 112 percent more than for the United Kingdom, which occupied second place in value. The high U. S. value results from the large imports of expensive items such as fresh and frozen fillets, common and spiny lobsters, shrimp, and scallops; and canned sardines, tuna, lobsters, and oysters.

IMPORTS OF FISHERY PRODUCTS BY LEADING NATIONS, 1963

Country	Thousand pounds	Thousand dollars
United States	1,984,482	436,235
Germany, Federal Republic .	1,516,117	126,542
United Kingdom.	1,432,783	205,932
France.	651,465	114,415
Netherlands	671,968	52,511
Italy	579,815	97,931
Denmark*.	390,108	22,783
Belgium and Luxembourg. . .	366,408	45,560

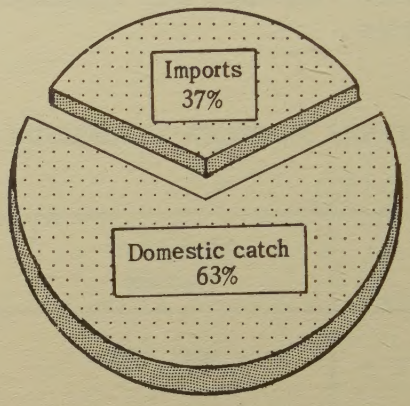
*Excluding Faeroe Islands.

Note:--Since items such as shell products, reptile skins, kelp and kelp products, sponges, etc. are not included in F.A.O. import data, the volume and value will not agree with import statistics published by the Bureau. Data for the United States are on a f.o.b. basis; for other countries, on a c.i.f. (cost, insurance, freight) basis.

DOMESTIC SUPPLY OF FISHERY PRODUCTS INCREASED

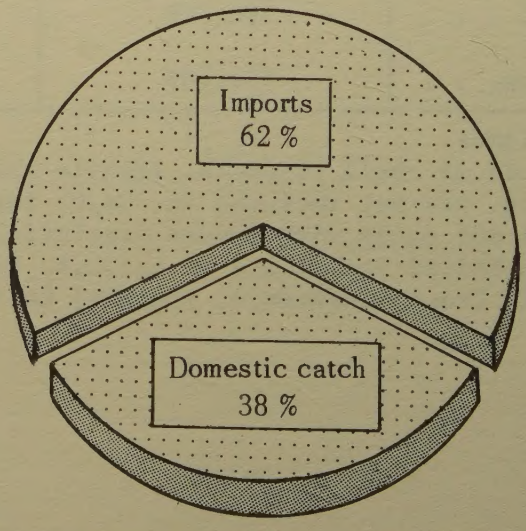
58 PERCENT SINCE 1954

1954



7,593 MILLION POUNDS

1964



12,032 MILLION POUNDS